



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 175267

TO: Sarvamangala Devi
Location: REM-3B07/3C18
Art Unit: 1645 5
Friday, January 05 2006
Case Serial Number: 09/445517

From: Kristine
Location: Biotech-Chem Library
REM-1B69
Phone: (571)272-4161

Kristine.Hensle@uspto.gov

Search Notes

Examiner Devi,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Kristine Hensle
Librarian
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175267

From: Devi, Sarvamangala
Sent: Thursday, December 29, 2005 9:19 AM
To: STIC-Biotech/ChemLib
Subject: 09/445,517

In application 09/445,517, please perform a sequence search for SEQ ID NO: 14 in pending and commercial databses. Please provide me with a paper copy of first 50 hits.

Thanx.

S. DEVI, Ph.D.
Primary Examiner
AU 1645
Rems - 3C18

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Searcher: _____
Searcher Phone: _____
Date Searcher Picked up: _____
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Type of Search
NA# _____ AA# _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure #: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable
STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
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Other (Specify): _____

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OM protein - protein search, using sw model

Run on: January 4, 2006, 11:46:27 ; Search time 13 Seconds
(without alignments)
24.155 Million cell updates/sec

Title: US-09-445-517-14
Perfect score: 139
Sequence: 1 XXNTATATQRLXNLFXXXXXNGXPXPXTXVGSNTY 37

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 61072 seqs, 8486849 residues

Total number of hits satisfying chosen parameters: 61072

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 150 summaries

Database : Published Applications_AA_New:*

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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2	57	41.0	30	7	US-11-098-674-13	Sequence 13, Appl
3	43	30.9	37	6	US-10-516-768-23	Sequence 23, Appl
4	43	30.9	37	6	US-10-516-768-25	Sequence 25, Appl
5	41.5	29.9	668	7	US-11-052-554A-103	Sequence 103, Appl
6	37	28.6	40	6	US-10-516-768-6	Sequence 6, Appl
7	37	28.6	125	6	US-10-516-768-8	Sequence 8, Appl
8	36	25.9	37	6	US-10-516-768-24	Sequence 24, Appl
9	36	25.9	37	6	US-10-516-768-30	Sequence 1, Appl
10	36	25.9	38	6	US-10-516-768-1	Sequence 30, Appl
11	36	25.9	39	6	US-10-516-768-2	Sequence 2, Appl
12	36	25.9	126	6	US-10-516-768-4	Sequence 4, Appl
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15	36	25.9	600	7	US-11-055-822-758	Sequence 758, Appl
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116     29.5      21.2      308      7      US-11-082-389-140      Sequence 140, App
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138     29      20.9      236      7      US-11-000-463-394      Sequence 394, App
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148     29      20.9      330      7      US-11-022-289-11      Sequence 11, Appl
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150     29      20.9      330      7      US-11-165-141-15      Sequence 15, Appl
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ALIGNMENTS

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RESULT 1
US-10-516-768-26
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; Publication No. US20050256302A1
; GENERAL INFORMATION:
; APPLICANT: MINAMINO, NAOTO
; APPLICANT: KATAFUCHI, TAKESHI
; TITLE OF INVENTION: NOVEL PEPTIDES HAVING CAMP PRODUCING ACTIVITY
; FILE REFERENCE: 62273(71526)
; CURRENT APPLICATION NUMBER: US/10/516,768
; CURRENT FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: PCT/JPO3/06641
; PRIOR FILING DATE: 2003-05-28
; PRIOR APPLICATION NUMBER: JP 2002-162797
; PRIOR FILING DATE: 2002-06-04
; NUMBER OF SEQ ID NOS: 52
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; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 26
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: C-term amidated
US-10-516-768-26

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; Sequence 13, Application US/11098674
; Publication No. US20050267029A1
; GENERAL INFORMATION:
; APPLICANT: Ancsin, John B.
; APPLICANT: Elimova, Elena
; APPLICANT: Kisilevsky, Robert
; TITLE OF INVENTION: Compounds which Modulate Amyloidogenesis and Methods for Their
; FILE REFERENCE: PTQ-0066
; CURRENT APPLICATION NUMBER: US/11/098,674
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US 60/559,122
; PRIOR FILING DATE: 2004-04-02
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-098-674-13

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Db      14      NTATCATQRLANFL 27

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; Sequence 23, Application US/10516768
; Publication No. US20050256302A1
; GENERAL INFORMATION:
; APPLICANT: MINAMINO, NAOTO
; APPLICANT: KATAFUCHI, TAKESHI
; TITLE OF INVENTION: NOVEL PEPTIDES HAVING CAMP PRODUCING ACTIVITY
; FILE REFERENCE: 62273(71526)
; CURRENT APPLICATION NUMBER: US/10/516,768
; CURRENT FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: PCT/JPO3/06641
; PRIOR FILING DATE: 2003-05-28
; PRIOR APPLICATION NUMBER: JP 2002-162797
; PRIOR FILING DATE: 2002-06-04
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 23
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Sus sp.
; FEATURE:
; OTHER INFORMATION: C-term amidated
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; APPLICANT: MINAMINO, NAOTO
; APPLICANT: KATAFUCHI, TAKESHI
; TITLE OF INVENTION: NOVEL PEPTIDES HAVING CAMP PRODUCING ACTIVITY
; FILE REFERENCE: 62273(71526)
; CURRENT APPLICATION NUMBER: US/10/516,768
; CURRENT FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: PCT/JP03/06641
; PRIOR FILING DATE: 2003-05-28
; PRIOR APPLICATION NUMBER: JP 2002-162797
; PRIOR FILING DATE: 2002-06-04
; NUMBER OF SEQ ID NOS: 52
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; SEQ ID NO 24
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; OTHER INFORMATION: C-term amidated
US-10-516-768-24

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; Publication No. US20050256302A1
; GENERAL INFORMATION:
; APPLICANT: MINAMINO, NAOTO
; APPLICANT: KATAFUCHI, TAKESHI
; TITLE OF INVENTION: NOVEL PEPTIDES HAVING CAMP PRODUCING ACTIVITY
; FILE REFERENCE: 62273(71526)
; CURRENT APPLICATION NUMBER: US/10/516,768
; CURRENT FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: PCT/JP03/06641
; PRIOR FILING DATE: 2003-05-28
; PRIOR APPLICATION NUMBER: JP 2002-162797
; PRIOR FILING DATE: 2002-06-04
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn Ver. 3.3
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; TYPE: PRT
; ORGANISM: Sus sp.
; FEATURE:
; OTHER INFORMATION: C-term amidated
US-10-516-768-30

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; Publication No. US20050256302A1
; GENERAL INFORMATION:
; APPLICANT: MINAMINO, NAOTO
; APPLICANT: KATAFUCHI, TAKESHI
; TITLE OF INVENTION: NOVEL PEPTIDES HAVING CAMP PRODUCING ACTIVITY
; FILE REFERENCE: 62273(71526)
; CURRENT APPLICATION NUMBER: US/10/516,768

; CURRENT FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: PCT/JP03/06641
; PRIOR FILING DATE: 2003-05-28
; PRIOR APPLICATION NUMBER: JP 2002-162797
; PRIOR FILING DATE: 2002-06-04
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 1
; LENGTH: 38
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; ORGANISM: Sus sp.
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; OTHER INFORMATION: C-term may be amidated
US-10-516-768-1

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RESULT 11
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; Sequence 2, Application US/10516768
; Publication No. US20050256302A1
; GENERAL INFORMATION:
; APPLICANT: MINAMINO, NAOTO
; APPLICANT: KATAFUCHI, TAKESHI
; TITLE OF INVENTION: NOVEL PEPTIDES HAVING CAMP PRODUCING ACTIVITY
; FILE REFERENCE: 62273(71526)
; CURRENT APPLICATION NUMBER: US/10/516,768
; CURRENT FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: PCT/JP03/06641
; PRIOR FILING DATE: 2003-05-28
; PRIOR APPLICATION NUMBER: JP 2002-162797
; PRIOR FILING DATE: 2002-06-04
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US-10-516-768-2

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Qy 3 NTATXATQRLXNFXLXXXXXNGPXLPTXVGSNTY 37
:|||||
Db 3 NTATCMTHRLVGLLSRSGSMVRSNLLPTKMGFKVF 37
:|||||

RESULT 12
US-10-516-768-4
; Sequence 4, Application US/10516768
; Publication No. US20050256302A1
; GENERAL INFORMATION:
; APPLICANT: MINAMINO, NAOTO
; APPLICANT: KATAFUCHI, TAKESHI
; TITLE OF INVENTION: NOVEL PEPTIDES HAVING CAMP PRODUCING ACTIVITY
; FILE REFERENCE: 62273(71526)
; CURRENT APPLICATION NUMBER: US/10/516,768
; CURRENT FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: PCT/JP03/06641
; PRIOR FILING DATE: 2003-05-28
; PRIOR APPLICATION NUMBER: JP 2002-162797
; PRIOR FILING DATE: 2002-06-04
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn Ver. 3.3


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; PRIOR APPLICATION NUMBER: DE 19931415.2
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931418.7
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931419.5
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931420.9
; PRIOR FILING DATE: 1999-07-08
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1158
; SEQ ID NO 758
; LENGTH: 600
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-11-055-822-758

Query Match          25.9%; Score 36; DB 7; Length 600;
Best Local Similarity 60.0%; Pred. No. 16;
Matches 6; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy      25 PXLPTXVGS 34
      |||||:|
Db      411 PALPTTIGS 420

RESULT 16
US-10-858-730-224
; Sequence 224, Application US/10858730
; Publication No. US20050255568A1
; GENERAL INFORMATION:
; APPLICANT: Bailey, Richard B.
; APPLICANT: Blomquist, Paul
; APPLICANT: Doten, Reed
; APPLICANT: Driggers, Edward M.
; APPLICANT: Madden, Kevin T.
; APPLICANT: O'Leary, Jessica
; APPLICANT: O'Toole, George
; APPLICANT: Trueheart, Joshua
; APPLICANT: Walbridge, Michael J.
; APPLICANT: Yorgey, Peter S.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR AMINO ACID
; FILE REFERENCE: 14184-030001
; CURRENT APPLICATION NUMBER: US/10/858,730
; CURRENT FILING DATE: 2004-06-01
; PRIOR APPLICATION NUMBER: US 60/475,000
; PRIOR FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US 60/551,860
; PRIOR FILING DATE: 2004-03-10
; NUMBER OF SEQ ID NOS: 364
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 224
; LENGTH: 745
; TYPE: PRT
; ORGANISM: Coryne-bacterium glutamicum
US-10-858-730-224

Query Match          25.9%; Score 36; DB 6; Length 745;
Best Local Similarity 60.0%; Pred. No. 21;
Matches 6; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy      25 PXLPTXVGS 34
      |||||:|
Db      411 PALPTTIGS 420

RESULT 17
US-11-055-822-226
; Sequence 226, Application US/11055822
; Publication No. US20050260707A1
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kroger, Burkhard
```

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; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Haberhauer, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING
; FILE REFERENCE: BGI-121CPCN
; CURRENT APPLICATION NUMBER: US/11/055,822
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 09/606,740
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: 60/141,031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: 60/142,101
; PRIOR FILING DATE: 1999-07-02
; PRIOR APPLICATION NUMBER: 60/148,613
; PRIOR FILING DATE: 1999-08-12
; PRIOR APPLICATION NUMBER: 60/187,970
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: DE 19930476.9
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: DE 19931415.2
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931418.7
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931419.5
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931420.9
; PRIOR FILING DATE: 1999-07-08
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1158
; SEQ ID NO 226
; LENGTH: 745
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-11-055-822-226

Query Match          25.9%; Score 36; DB 7; Length 745;
Best Local Similarity 60.0%; Pred. No. 21;
Matches 6; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy      25 PXLPTXVGS 34
      |||||:|
Db      411 PALPTTIGS 420

RESULT 18
US-11-055-822-714
; Sequence 714, Application US/11055822
; Publication No. US20050260707A1
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kroger, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Haberhauer, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING
; FILE REFERENCE: BGI-121CPCN
; CURRENT APPLICATION NUMBER: US/11/055,822
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 09/606,740
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: 60/141,031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: 60/142,101
; PRIOR FILING DATE: 1999-07-02
; PRIOR APPLICATION NUMBER: 60/148,613
; PRIOR FILING DATE: 1999-08-12
; PRIOR APPLICATION NUMBER: 60/187,970
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: DE 19930476.9
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: DE 19931415.2
```



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; NAME/KEY: MOD_RES
; LOCATION: (7)
; OTHER INFORMATION: Variable amino acid
US-10-516-768-33

Query Match      25.2%; Score 35; DB 6; Length 23;
Best Local Similarity 64.3%; Pred. No. 0.75;
Matches 9; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNKL 16
    |||||
Db 3 NTATXMTHLVGLL 16

RESULT 22
US-10-793-626-2812
; Sequence 2812, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2812
; LENGTH: 497
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-10-793-626-2812

Query Match      25.2%; Score 35; DB 6; Length 497;
Best Local Similarity 60.0%; Pred. No. 21;
Matches 6; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 25 PXLPTXVGS 34
    |||||
Db 162 PDLPTTIGS 171

RESULT 23
US-10-878-556A-78
; Sequence 78, Application US/10878556A
; Publication No. US20050266399A1
; GENERAL INFORMATION:
; APPLICANT: Hoffmann La-Roche Inc.
; TITLE OF INVENTION: HCV regulated protein expression
; FILE REFERENCE: 21762
; CURRENT APPLICATION NUMBER: US/10/878,556A
; CURRENT FILING DATE: 2004-06-28
; NUMBER OF SEQ ID NOS: 199
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 78
; LENGTH: 418
; TYPE: PRT
; ORGANISM: Homo sapiens
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: sw_hum/sep7_human
; DATABASE ENTRY DATE: 1997-11-01
US-10-878-556A-78

Query Match      24.5%; Score 34; DB 6; Length 418;
Best Local Similarity 70.0%; Pred. No. 27;
Matches 7; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 27 LPXTXVGSNT 36
    |||||
```

```
Db 225 LPLAVGSNT 234

RESULT 24
US-10-454-437-38
; Sequence 38, Application US/10454437
; Publication No. US20050277115A1
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kroger, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Haberhauer, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS
; TITLE OF INVENTION: INVOLVED IN HOMEOSTASIS AND ADAPTATION
; FILE REFERENCE: BGI-128CPCN
; CURRENT APPLICATION NUMBER: US/10/454,437
; CURRENT FILING DATE: 2003-06-13
; PRIOR APPLICATION NUMBER: US 60/141031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: DE 19931636.8
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 199332125.6
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932126.4
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932127.2
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932128.0
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932129.9
; PRIOR FILING DATE: 1999-07-19
; PRIOR APPLICATION NUMBER: DE 19932226.0
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932920.6
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19932922.2
; PRIOR FILING DATE: 1999-07-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 442
; SEQ ID NO 38
; LENGTH: 507
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-10-454-437-38

Query Match      24.5%; Score 34; DB 6; Length 507;
Best Local Similarity 54.5%; Pred. No. 33;
Matches 6; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 22 NXGXPXPXTXV 32
    |||||
Db 24 NVGGLPGTYI 34

RESULT 25
US-10-858-730-75
; Sequence 75, Application US/10858730
; Publication No. US20050255568A1
; GENERAL INFORMATION:
; APPLICANT: Bailey, Richard B.
; APPLICANT: Blomquist, Paul
; APPLICANT: Doten, Reed
; APPLICANT: Driggers, Edward M.
; APPLICANT: Madden, Kevin T.
; APPLICANT: O'Leary, Jessica
; APPLICANT: O'Toole, George
; APPLICANT: Trueheart, Joshua
; APPLICANT: Walbridge, Michael J.
; APPLICANT: Yorgey, Peter S.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR AMINO ACID
; TITLE OF INVENTION: PRODUCTION
; FILE REFERENCE: 14184-030001
```


; CURRENT APPLICATION NUMBER: US/10/858,730
; CURRENT FILING DATE: 2004-06-01
; PRIOR APPLICATION NUMBER: US 60/475,000
; PRIOR FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US 60/551,860
; PRIOR FILING DATE: 2004-03-10
; NUMBER OF SEQ ID NOS: 364
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 75
; LENGTH: 759
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-10-858-730-75

Query Match 24.5%; Score 34; DB 6; Length 759;
Best Local Similarity 60.0%; Pred. No. 51;
Matches 6; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 25 PXLPTXVGS 34
| | | | : | |
Db 430 PPLPTTIGS 439

RESULT 26

US-10-858-730-76
; Sequence 76, Application US/10858730
; Publication No. US2005025568A1
; GENERAL INFORMATION:
; APPLICANT: Bailey, Richard B.
; APPLICANT: Blomquist, Paul
; APPLICANT: Doten, Reed
; APPLICANT: Driggers, Edward M.
; APPLICANT: Madden, Kevin T.
; APPLICANT: O'Leary, Jessica
; APPLICANT: O'Toole, George
; APPLICANT: Trueheart, Joshua
; APPLICANT: Walbridge, Michael J.
; APPLICANT: Yorgey, Peter S.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR AMINO ACID
; TITLE OF INVENTION: PRODUCTION
; FILE REFERENCE: 14184-030001
; CURRENT APPLICATION NUMBER: US/10/858,730
; CURRENT FILING DATE: 2004-06-01
; PRIOR APPLICATION NUMBER: US 60/475,000
; PRIOR FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US 60/551,860
; PRIOR FILING DATE: 2004-03-10
; NUMBER OF SEQ ID NOS: 364
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 76
; LENGTH: 760
; TYPE: PRT
; ORGANISM: Mycobacterium leprae
US-10-858-730-76

Query Match 24.5%; Score 34; DB 6; Length 760;
Best Local Similarity 60.0%; Pred. No. 51;
Matches 6; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 25 PXLPTXVGS 34
| | | | : | |
Db 430 PPLPTTIGS 439

RESULT 27

US-10-467-657-5562
; Sequence 5562, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega

; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 5562
; LENGTH: 771
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-5562

Query Match 24.5%; Score 34; DB 6; Length 771;
Best Local Similarity 60.0%; Pred. No. 52;
Matches 6; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 25 PXLPTXVGS 34
| | | | : | |
Db 439 PPLPTTIGS 448

RESULT 28

US-10-858-730-77
; Sequence 77, Application US/10858730
; Publication No. US2005025568A1
; GENERAL INFORMATION:
; APPLICANT: Bailey, Richard B.
; APPLICANT: Blomquist, Paul
; APPLICANT: Doten, Reed
; APPLICANT: Driggers, Edward M.
; APPLICANT: Madden, Kevin T.
; APPLICANT: O'Leary, Jessica
; APPLICANT: O'Toole, George
; APPLICANT: Trueheart, Joshua
; APPLICANT: Walbridge, Michael J.
; APPLICANT: Yorgey, Peter S.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR AMINO ACID
; TITLE OF INVENTION: PRODUCTION
; FILE REFERENCE: 14184-030001
; CURRENT APPLICATION NUMBER: US/10/858,730
; CURRENT FILING DATE: 2004-06-01
; PRIOR APPLICATION NUMBER: US 60/475,000
; PRIOR FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US 60/551,860
; PRIOR FILING DATE: 2004-03-10
; NUMBER OF SEQ ID NOS: 364
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 77
; LENGTH: 772
; TYPE: PRT
; ORGANISM: Streptomyces coelicolor
US-10-858-730-77

Query Match 24.5%; Score 34; DB 6; Length 772;
Best Local Similarity 60.0%; Pred. No. 52;
Matches 6; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 25 PXLPTXVGS 34
| | | | : | |
Db 439 PPLPTTIGS 448

RESULT 29

US-10-518-599-24
; Sequence 24, Application US/10518599
; Publication No. US20050251873A1
; GENERAL INFORMATION:
; APPLICANT: PENNINGER, JOSEPH M.
; APPLICANT: CRACKOWER, MICHAEL A.
; TITLE OF INVENTION: ACE2 ACTIVATION FOR TREATMENT OF HEART, LUNG AND

```
; TITLE OF INVENTION: KIDNEY DISEASE AND HYPERTENSION
; FILE REFERENCE: SONN:064US
; CURRENT APPLICATION NUMBER: US/10/518,599
; CURRENT FILING DATE: 2004-12-17
; PRIOR APPLICATION NUMBER: PCT/CA03/00882
; PRIOR FILING DATE: 2003-06-19
; PRIOR APPLICATION NUMBER: US 60/389,709
; PRIOR FILING DATE: 2002-06-19
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 24
; LENGTH: 805
; TYPE: PRT
; ORGANISM: Rattus rattus
US-10-518-599-24

Query Match      24.5%; Score 34; DB 6; Length 805;
Best Local Similarity 39.1%; Pred. No. 55;
Matches 9; Conservative 3; Mismatches 9; Indels 2; Gaps 1;

Qy 3 NTATXATQRLXNLFXXXXXXNGP 25
Db 545 SNSTEAGQKLLNML--SLGNSGP 565

RESULT 30
US-10-510-386-242
; Sequence 242, Application US/10510386
; Publication No. US20050244922A1
; GENERAL INFORMATION:
; APPLICANT: Andersen, Jens Tonne
; APPLICANT: Clausen, Ib Groth
; APPLICANT: Jorgensen, Steen Troels
; APPLICANT: Olsen, Peter Bjarke
; APPLICANT: Rasmussen, Michael Dolberg
; TITLE OF INVENTION: Improved Bacillus Host Cell
; FILE REFERENCE: 10294.204-US
; CURRENT APPLICATION NUMBER: US/10/510,386
; CURRENT FILING DATE: 2004-10-04
; NUMBER OF SEQ ID NOS: 248
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 242
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Bacillus licheniformis
US-10-510-386-242

Query Match      23.7%; Score 33; DB 6; Length 247;
Best Local Similarity 33.3%; Pred. No. 24;
Matches 7; Conservative 3; Mismatches 11; Indels 0; Gaps 0;

Qy 5 ATXATQRLXNLFXXXXXXNGP 25
Db 113 STHKQRLVSYLLVEQKAGP 133

RESULT 31
US-10-995-561-533
; Sequence 533, Application US/10995561
; Publication No. US2005027054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 533
; LENGTH: 271
; TYPE: PRT

; TITLE OF INVENTION: Homo sapiens
US-10-995-561-533

Query Match      23.7%; Score 33; DB 6; Length 271;
Best Local Similarity 50.0%; Pred. No. 26;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 25 PXLPTXVXGNT 36
Db 208 PEIPKTIITGSET 219

RESULT 32
US-11-129-143-88
; Sequence 88, Application US/11129143
; Publication No. US20050266518A1
; GENERAL INFORMATION:
; APPLICANT: BERRY, Alan
; APPLICANT: BRETZEL, Werner
; APPLICANT: HUMBELIN, Markus
; APPLICANT: LOPEZ-ULIBARRI, Rual
; APPLICANT: MAYER, Anne F.
; APPLICANT: YELISEEV, Alexei A.
; TITLE OF INVENTION: IMPROVED ISOPRENOID PRODUCTION
; FILE REFERENCE: C38435/121966
; CURRENT APPLICATION NUMBER: US/11/129,143
; CURRENT FILING DATE: 2005-05-13
; NUMBER OF SEQ ID NOS: 197
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 88
; LENGTH: 325
; TYPE: PRT
; ORGANISM: Enterococcus faecium
US-11-129-143-88

Query Match      23.7%; Score 33; DB 7; Length 325;
Best Local Similarity 25.0%; Pred. No. 32;
Matches 7; Conservative 5; Mismatches 16; Indels 0; Gaps 0;

Qy 8 ATQRLXNLFXXXXXXNGPXLPTXVGSN 35
Db 68 ATKVSOQFLDLFRKEAGLSKASVISQN 95

RESULT 33
US-11-055-822-302
; Sequence 302, Application US/11055822
; Publication No. US20050260707A1
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kroger, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Haberhauser, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING
; FILE REFERENCE: BGI-121CPCN
; CURRENT APPLICATION NUMBER: US/11/055,822
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 09/606,740
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: 60/141,031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: 60/142,101
; PRIOR FILING DATE: 1999-07-02
; PRIOR APPLICATION NUMBER: 60/148,613
; PRIOR FILING DATE: 1999-08-12
; PRIOR APPLICATION NUMBER: 60/187,970
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: DE 19930476.9
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: DE 19931415.2
; PRIOR FILING DATE: 1999-07-08
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```
; PRIOR APPLICATION NUMBER: DE 19931418.7
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931419.5
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931420.9
; PRIOR FILING DATE: 1999-07-08
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1158
; SEQ ID NO 302
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-11-055-822-302

Query Match      23.7%; Score 33; DB 7; Length 382;
Best Local Similarity 53.8%; Pred. No. 38;
Matches 7; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 4 TATXATQRLXNPL 16
   |||||: |||
Db 2 TATYTTETAINPL 14

RESULT 34
US-11-055-822-344
; Sequence 344, Application US/11055822
; Publication No. US20050260707A1
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kroger, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING
; FILE REFERENCE: BGI-121CPCN
; CURRENT APPLICATION NUMBER: US/11/055,822
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 09/606,740
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: 60/141,031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: 60/142,101
; PRIOR FILING DATE: 1999-07-02
; PRIOR APPLICATION NUMBER: 60/148,613
; PRIOR FILING DATE: 1999-08-12
; PRIOR APPLICATION NUMBER: 60/187,970
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: DE 19930476.9
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: DE 19931415.2
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931418.7
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931419.5
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931420.9
; PRIOR FILING DATE: 1999-07-08
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1158
; SEQ ID NO 344
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-11-055-822-344

Query Match      23.7%; Score 33; DB 7; Length 382;
Best Local Similarity 53.8%; Pred. No. 38;
Matches 7; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 4 TATXATQRLXNPL 16
   |||||: |||
Db 2 TATYTTETAINPL 14
```

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RESULT 35
US-10-467-657-7592
; Sequence 7592, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SpA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 7592
; LENGTH: 408
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-7592

Query Match      23.7%; Score 33; DB 6; Length 408;
Best Local Similarity 46.2%; Pred. No. 41;
Matches 6; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 3 NTATXATQRLXNF 15
   ||||: |||
Db 267 NTAPQSLERILNF 279

RESULT 36
US-10-467-657-8366
; Sequence 8366, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SpA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 8366
; LENGTH: 408
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-8366

Query Match      23.7%; Score 33; DB 6; Length 408;
Best Local Similarity 46.2%; Pred. No. 41;
Matches 6; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 3 NTATXATQRLXNF 15
   ||||: |||
Db 267 NTAPQSLERILNF 279

RESULT 37
US-11-055-822-290
; Sequence 290, Application US/11055822
; Publication No. US20050260707A1
; GENERAL INFORMATION:
```

; APPLICANT: Pompejus, Markus
; APPLICANT: Krogex, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Haberhauer, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING
; TITLE OF INVENTION: METABOLIC PATHWAY PROTEINS
; FILE REFERENCE: BGI-121CPCN
; CURRENT APPLICATION NUMBER: US/11/055,822
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 09/606,740
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: 60/141,031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: 60/142,101
; PRIOR FILING DATE: 1999-07-02
; PRIOR APPLICATION NUMBER: 60/148,613
; PRIOR FILING DATE: 1999-08-12
; PRIOR APPLICATION NUMBER: 60/187,970
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: DE 19930476.9
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: DE 19931415.2
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931418.7
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931419.5
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931420.9
; PRIOR FILING DATE: 1999-07-08
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1158
; SEQ ID NO 290
; LENGTH: 409
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-11-055-822-290

Query Match 23.7%; Score 33; DB 7; Length 409;
Best Local Similarity 36.8%; Pred. No. 41;
Matches 7; Conservative 1; Mismatches 11; Indels 0; Gaps 0;

Qy 16 LXXXXXXGXPLPTXVGS 34
Db 276 LLSAANIGPALEDAQVGT 294

RESULT 38
US-11-054-385-12
; Sequence 12, Application US/11054385
; Publication No. US20050257291A1
; GENERAL INFORMATION:
; APPLICANT: MIZUTANI, Masako
; APPLICANT: TANAKA, Yoshikazu
; APPLICANT: KUSUMI, Takaaki
; APPLICANT: SAITO, Kazuki
; APPLICANT: YAMAZAKI, Mami
; APPLICANT: ZHIZHONG, GONG
; TITLE OF INVENTION: GENES ENCODING PROTEINS HAVING TRANSGLYCOSYLATION
; TITLE OF INVENTION: ACTIVITY
; FILE REFERENCE: 001560-350
; CURRENT APPLICATION NUMBER: US/11/054,385
; CURRENT FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: US/09/147,955
; PRIOR FILING DATE: 1999-03-24
; PRIOR APPLICATION NUMBER: PCT/JP98/03199
; PRIOR FILING DATE: 1998-07-16
; PRIOR APPLICATION NUMBER: JP 9-200571
; PRIOR FILING DATE: 1997-07-25
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 468

; TYPE: PRT
; ORGANISM: Petunia hybrida
US-11-054-385-12

Query Match 23.7%; Score 33; DB 7; Length 468;
Best Local Similarity 41.7%; Pred. No. 48;
Matches 5; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 24 GPXLPXTXVGSN 35
Db 238 GPLPSAFLGNN 249

RESULT 39
US-11-124-368A-300
; Sequence 300, Application US/11124368A
; Publication No. US20050287559A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: James J. Devlin
; APPLICANT: May Luke
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof
; FILE REFERENCE: CLO01524
; CURRENT APPLICATION NUMBER: US/11/124,368A
; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,845
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/625,936
; PRIOR FILING DATE: 2004-11-09
; NUMBER OF SEQ ID NOS: 21112
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 300
; LENGTH: 555
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-124-368A-300

Query Match 23.7%; Score 33; DB 7; Length 555;
Best Local Similarity 46.2%; Pred. No. 57;
Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNF 15
Db 437 NTVKCKTKLANF 449

RESULT 40
US-10-858-730-103
; Sequence 103, Application US/10858730
; Publication No. US20050255568A1
; GENERAL INFORMATION:
; APPLICANT: Bailey, Richard B.
; APPLICANT: Blomquist, Paul
; APPLICANT: Doten, Reed
; APPLICANT: Driggers, Edward M.
; APPLICANT: Madden, Kevin T.
; APPLICANT: O'Leary, Jessica
; APPLICANT: O'Toole, George
; APPLICANT: Trueheart, Joshua
; APPLICANT: Walbridge, Michael J.
; APPLICANT: Yorgey, Peter S.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR AMINO ACID
; TITLE OF INVENTION: PRODUCTION
; FILE REFERENCE: 14184-030001
; CURRENT APPLICATION NUMBER: US/10/858,730
; CURRENT FILING DATE: 2004-06-01
; PRIOR APPLICATION NUMBER: US 60/475,000
; PRIOR FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US 60/551,860
; PRIOR FILING DATE: 2004-03-10
; NUMBER OF SEQ ID NOS: 364
; SOFTWARE: FastSeq for Windows Version 4.0

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; SEQ ID NO 103
; LENGTH: 578
; TYPE: PRT
; ORGANISM: Streptomyces coelicolor
US-10-858-730-103

Query Match      23.7%; Score 33; DB 6; Length 578;
Best Local Similarity 37.0%; Pred. No. 60;
Matches 10; Conservative 1; Mismatches 12; Indels 4; Gaps 1;

Oy 11 RLXNFXXXXXXNGPXLPTXVGSNTY 37
Db 493 RFASALPYTTAAIGLLP----GSATY 515

RESULT 41
US-11-124-368A-299
; Sequence 299, Application US/11124368A
; Publication No. US20050287559A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: James J. Devlin
; APPLICANT: May Luke
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001524
; CURRENT APPLICATION NUMBER: US/11/124.368A
; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,845
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/625,936
; PRIOR FILING DATE: 2004-11-09
; NUMBER OF SEQ ID NOS: 21112
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 299
; LENGTH: 749
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-124-368A-299

Query Match      23.7%; Score 33; DB 7; Length 749;
Best Local Similarity 46.2%; Pred. No. 79;
Matches 6; Conservative 2; Mismatches 5; Indels 5; Gaps 0;

Oy 3 NTATXATQRLXNF 15
Db 327 NTVKCTKGLANF 339

RESULT 42
US-11-124-368A-298
; Sequence 298, Application US/11124368A
; Publication No. US20050287559A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: James J. Devlin
; APPLICANT: May Luke
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001524
; CURRENT APPLICATION NUMBER: US/11/124.368A
; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,845
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/625,936
; PRIOR FILING DATE: 2004-11-09
; NUMBER OF SEQ ID NOS: 21112
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 298
; LENGTH: 859
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-124-368A-298

Query Match      23.7%; Score 33; DB 6; Length 859;
Best Local Similarity 53.8%; Pred. No. 1e+02;
Matches 7; Conservative 1; Mismatches 5; Indels 5; Gaps 0;

Oy 4 TATXATQRLXNFI 16
Db 455 NTVKCTKGLANF 467

RESULT 43
US-11-124-368A-302
; Sequence 302, Application US/11124368A
; Publication No. US20050287559A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: James J. Devlin
; APPLICANT: May Luke
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001524
; CURRENT APPLICATION NUMBER: US/11/124.368A
; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,845
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/625,936
; PRIOR FILING DATE: 2004-11-09
; NUMBER OF SEQ ID NOS: 21112
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 302
; LENGTH: 877
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-124-368A-302

Query Match      23.7%; Score 33; DB 7; Length 877;
Best Local Similarity 46.2%; Pred. No. 94;
Matches 6; Conservative 2; Mismatches 5; Indels 5; Gaps 0;

Oy 3 NTATXATQRLXNF 15
Db 455 NTVKCTKGLANF 467

RESULT 44
US-10-475-204-34
; Sequence 34, Application US/10475204
; Publication No. US20050277116A1
; GENERAL INFORMATION:
; APPLICANT: PRESIDENT AND FELLOWS OF HARVARD COLLEGE
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE IDENTIFICATION OF
; TITLE OF INVENTION: PROTEIN INTERACTIONS IN VERTEBRATE CELLS
; FILE REFERENCE: HMV-056.25
; CURRENT APPLICATION NUMBER: US/10/475,204
; CURRENT FILING DATE: 2003-10-17
; PRIOR APPLICATION NUMBER: PCT/US02/13008
; PRIOR FILING DATE: 2002-09-27
; PRIOR APPLICATION NUMBER: 60/285,509
; PRIOR FILING DATE: 2001-04-20
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 943
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-475-204-34

Query Match      23.7%; Score 33; DB 6; Length 943;
Best Local Similarity 53.8%; Pred. No. 1e+02;
Matches 7; Conservative 1; Mismatches 5; Indels 5; Gaps 0;

Oy 4 TATXATQRLXNFI 16
Db 455 NTVKCTKGLANF 467
```

Db 583 TATKGNQVQKFL 595

RESULT 45

US-11-052-554A-77

Sequence 77, Application US/11052554A

Publication No. US2005028866A1

GENERAL INFORMATION:

APPLICANT: Sachdeva, et al.

TITLE OF INVENTION: COMPUTATIONAL METHOD FOR IDENTIFYING ADHESIN AND ADHESIN-LIKE

FILE REFERENCE: 30853/40359A

CURRENT APPLICATION NUMBER: US/11/052,554A

CURRENT FILING DATE: 2005-02-07

PRIOR APPLICATION NUMBER: US 60/589,227

PRIOR FILING DATE: 2004-07-20

PRIOR APPLICATION NUMBER: IN 173/DEL/2004

PRIOR FILING DATE: 2004-02-06

NUMBER OF SEQ ID NOS: 763

SOFTWARE: PatentIn version 3.3

SEQ ID NO 77

LENGTH: 362

TYPE: PRT

ORGANISM: Escherichia coli 0157:H7

US-11-052-554A-77

Query Match 23.4%; Score 32.5; DB 7; Length 362;

Best Local Similarity 25.0%; Pred. No. 45;

Matches 9; Conservative 5; Mismatches 21; Indels 1; Gaps 1;

Qy 3 NTATXATQRLXNFXLXXXXXN-XGPKLPXTXVGSNTY 37

Db 157 NTSNNTKVRIDPIIQAQDGLSGFGMACTTVAQTQY 192

RESULT 46

US-11-052-554A-204

Sequence 204, Application US/11052554A

Publication No. US2005028866A1

GENERAL INFORMATION:

APPLICANT: Sachdeva, et al.

TITLE OF INVENTION: COMPUTATIONAL METHOD FOR IDENTIFYING ADHESIN AND ADHESIN-LIKE

FILE REFERENCE: 30853/40359A

CURRENT APPLICATION NUMBER: US/11/052,554A

CURRENT FILING DATE: 2005-02-07

PRIOR APPLICATION NUMBER: US 60/589,227

PRIOR FILING DATE: 2004-07-20

PRIOR APPLICATION NUMBER: IN 173/DEL/2004

PRIOR FILING DATE: 2004-02-06

NUMBER OF SEQ ID NOS: 763

SOFTWARE: PatentIn version 3.3

SEQ ID NO 204

LENGTH: 362

TYPE: PRT

ORGANISM: Shigella flexneri 2a str. 2457T

US-11-052-554A-204

Query Match 23.4%; Score 32.5; DB 7; Length 362;

Best Local Similarity 25.0%; Pred. No. 45;

Matches 9; Conservative 5; Mismatches 21; Indels 1; Gaps 1;

Qy 3 NTATXATQRLXNFXLXXXXXN-XGPKLPXTXVGSNTY 37

Db 157 NTSNNTKVRIDPIIQAQDGLSGFGMACTTVAQTQY 192

RESULT 47

US-10-793-626-670

Sequence 670, Application US/10793626

Publication No. US20050255478A1

GENERAL INFORMATION:

APPLICANT: KIMMERLY, WILLIAM JOHN

TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS

FILE REFERENCE: P03480US

CURRENT APPLICATION NUMBER: US/10/793,626

CURRENT FILING DATE: 2004-03-04

PRIOR APPLICATION NUMBER: 60/164,258

PRIOR FILING DATE: 1999-11-09

NUMBER OF SEQ ID NOS: 4472

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 670

LENGTH: 126

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: synthetic

US-10-793-626-670

Query Match 23.0%; Score 32; DB 6; Length 126;

Best Local Similarity 26.5%; Pred. No. 18;

Matches 9; Conservative 3; Mismatches 22; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNXPXLPXTXVGSNT 36

Db 82 STGGVTTSPVSGFLTPGLPGTSSWLPFGAFGNS 115

RESULT 48

US-10-793-626-1604

Sequence 1604, Application US/10793626

Publication No. US20050255478A1

GENERAL INFORMATION:

APPLICANT: KIMMERLY, WILLIAM JOHN

TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS

FILE REFERENCE: P03480US

CURRENT APPLICATION NUMBER: US/10/793,626

CURRENT FILING DATE: 2004-03-04

PRIOR APPLICATION NUMBER: 60/164,258

PRIOR FILING DATE: 1999-11-09

NUMBER OF SEQ ID NOS: 4472

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 1604

LENGTH: 126

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: synthetic

US-10-793-626-1604

Query Match 23.0%; Score 32; DB 6; Length 126;

Best Local Similarity 26.5%; Pred. No. 18;

Matches 9; Conservative 3; Mismatches 22; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNXPXLPXTXVGSNT 36

Db 82 STGGVTTSPVSGFLTPGLPGTSSWLPFGAFGNS 115

RESULT 49

US-10-793-626-1606

Sequence 1606, Application US/10793626

Publication No. US20050255478A1

GENERAL INFORMATION:

APPLICANT: KIMMERLY, WILLIAM JOHN

TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS

FILE REFERENCE: P03480US

CURRENT APPLICATION NUMBER: US/10/793,626

CURRENT FILING DATE: 2004-03-04

PRIOR APPLICATION NUMBER: 60/164,258

PRIOR FILING DATE: 1999-11-09

NUMBER OF SEQ ID NOS: 4472

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 1606

FILE REFERENCE: P03480US

CURRENT APPLICATION NUMBER: US/10/793,626

CURRENT FILING DATE: 2004-03-04

PRIOR APPLICATION NUMBER: 60/164,258

PRIOR FILING DATE: 1999-11-09

NUMBER OF SEQ ID NOS: 4472

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 670

LENGTH: 126

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: synthetic

US-10-793-626-670

Query Match 23.0%; Score 32; DB 6; Length 126;

Best Local Similarity 26.5%; Pred. No. 18;

Matches 9; Conservative 3; Mismatches 22; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNXPXLPXTXVGSNT 36

Db 82 STGGVTTSPVSGFLTPGLPGTSSWLPFGAFGNS 115

RESULT 48

US-10-793-626-1604

Sequence 1604, Application US/10793626

Publication No. US20050255478A1

GENERAL INFORMATION:

APPLICANT: KIMMERLY, WILLIAM JOHN

TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS

FILE REFERENCE: P03480US

CURRENT APPLICATION NUMBER: US/10/793,626

CURRENT FILING DATE: 2004-03-04

PRIOR APPLICATION NUMBER: 60/164,258

PRIOR FILING DATE: 1999-11-09

NUMBER OF SEQ ID NOS: 4472

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 1604

LENGTH: 126

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: synthetic

US-10-793-626-1604

Query Match 23.0%; Score 32; DB 6; Length 126;

Best Local Similarity 26.5%; Pred. No. 18;

Matches 9; Conservative 3; Mismatches 22; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNXPXLPXTXVGSNT 36

Db 82 STGGVTTSPVSGFLTPGLPGTSSWLPFGAFGNS 115

RESULT 49

US-10-793-626-1606

Sequence 1606, Application US/10793626

Publication No. US20050255478A1

GENERAL INFORMATION:

APPLICANT: KIMMERLY, WILLIAM JOHN

TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS

FILE REFERENCE: P03480US

CURRENT APPLICATION NUMBER: US/10/793,626

CURRENT FILING DATE: 2004-03-04

PRIOR APPLICATION NUMBER: 60/164,258

PRIOR FILING DATE: 1999-11-09

NUMBER OF SEQ ID NOS: 4472

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 1606

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; LENGTH: 232
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-1606

Query Match          23.0%; Score 32; DB 6; Length 232;
Best Local Similarity 26.5%; Pred. No. 35;
Matches 9; Conservative 3; Mismatches 22; Indels 0; Gaps 0;

QY      3 NTATXATQRLLXNFLXXXXXXXXGXPLPXTVGSNT 36
       :|::|||:
DB     82 STGGVTTSPVSGFLTTCGLPGCTSSWLPFGAFGNS 115

RESULT 50
US-11-194-246-304
; Sequence 304, Application US/11194246
; Publication No. US20050272089A1
; GENERAL INFORMATION:
; APPLICANT: Mott, John
; APPLICANT: Trepod, Catherine
; APPLICANT: Arvidson, Staffan
; TITLE OF INVENTION: CRITICAL GENES AND POLYPEPTIDES OF HAEMOPHILUS INFLUENZAE AND MET
; TITLE OF INVENTION: USE
; FILE REFERENCE: 00592.US1 (M&R 268.05920101)
; CURRENT APPLICATION NUMBER: US/11/194,246
; CURRENT FILING DATE: 2005-08-01
; PRIOR APPLICATION NUMBER: US/10/274,586
; PRIOR FILING DATE: 2002-10-21
; PRIOR APPLICATION NUMBER: US 60/345,438
; PRIOR FILING DATE: 2001-10-19
; NUMBER OF SEQ ID NOS: 621
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 304
; LENGTH: 239
; TYPE: PRT
; ORGANISM: HAEMOPHILUS INFLUENZAE
US-11-194-246-304

Query Match          23.0%; Score 32; DB 7; Length 239;
Best Local Similarity 54.5%; Pred. No. 36;
Matches 6; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY      ~    6 TXATQRLLXNFL 16
       |::|||
DB     187 TSGEQRISNFL 197

Search completed: January 4, 2006, 12:00:12
Job time : 14 secs
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OM protein - protein search, using sw model

Run on: January 4, 2006, 11:45:42 ; Search time 164 Seconds
(without alignments)
94.266 Million cell updates/sec

Title: US-09-445-517-14

Perfect score: 139

Sequence: 1 XXNTATXATQRLXNLFXXXXXGXPLPXTXVGSNTY 37

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Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 150 summaries

Database :

Published Applications AA Main:
1: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	118	84.9	36	2	US-08-851-965-5
2	118	84.9	36	2	US-08-851-965-12
3	118	84.9	36	2	US-08-851-965-35
4	118	84.9	36	2	US-08-870-762A-12
5	118	84.9	36	2	US-08-870-762A-13
6	118	84.9	36	3	US-09-454-533-18
7	118	84.9	36	3	US-09-454-533-39
8	118	84.9	36	4	US-10-649-138-18
9	118	84.9	36	4	US-10-649-138-39
10	118	84.9	36	4	US-10-643-681-6
11	118	84.9	36	4	US-10-643-681-13
12	118	84.9	36	5	US-10-991-597-23
13	118	84.9	36	5	US-10-991-597-44
14	118	84.9	37	2	US-08-851-965-4
15	118	84.9	37	2	US-08-851-965-11
16	118	84.9	37	2	US-08-851-965-13
17	118	84.9	37	2	US-08-851-965-15
18	118	84.9	37	2	US-08-851-965-34
19	118	84.9	37	2	US-08-870-762A-3
20	118	84.9	37	2	US-08-870-762A-11
21	118	84.9	37	3	US-09-454-533-10
22	118	84.9	37	3	US-09-454-533-17
23	118	84.9	37	3	US-09-454-533-19
24	118	84.9	37	3	US-09-454-533-21
25	118	84.9	37	3	US-09-454-533-38
26	118	84.9	37	4	US-10-649-138-10
27	118	84.9	37	4	US-10-649-138-17

28	118	84.9	37	4	US-10-649-138-19	Sequence 19, Appl
29	118	84.9	37	4	US-10-649-138-21	Sequence 21, Appl
30	118	84.9	37	4	US-10-649-138-38	Sequence 38, Appl
31	118	84.9	37	4	US-10-643-681-3	Sequence 3, Appl
32	118	84.9	37	4	US-10-643-681-12	Sequence 12, Appl
33	118	84.9	37	4	US-10-643-681-14	Sequence 14, Appl
34	118	84.9	37	4	US-10-643-681-16	Sequence 16, Appl
35	118	84.9	37	5	US-10-991-597-15	Sequence 15, Appl
36	118	84.9	37	5	US-10-991-597-22	Sequence 22, Appl
37	118	84.9	37	5	US-10-991-597-24	Sequence 24, Appl
38	118	84.9	37	5	US-10-991-597-26	Sequence 26, Appl
39	118	84.9	37	5	US-10-991-597-43	Sequence 43, Appl
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42	117	84.2	36	5	US-10-991-597-16	Sequence 16, Appl
43	117	84.2	37	2	US-08-851-965-27	Sequence 27, Appl
44	117	84.2	37	3	US-09-454-533-33	Sequence 33, Appl
45	117	84.2	37	4	US-10-649-138-33	Sequence 33, Appl
46	117	84.2	37	4	US-10-643-681-28	Sequence 28, Appl
47	117	84.2	37	5	US-10-991-597-38	Sequence 38, Appl
48	116	83.5	36	2	US-08-851-965-8	Sequence 8, Appl
49	116	83.5	36	2	US-08-851-965-9	Sequence 9, Appl
50	116	83.5	36	2	US-08-851-965-18	Sequence 18, Appl
51	116	83.5	36	2	US-08-870-762A-14	Sequence 14, Appl
52	116	83.5	36	2	US-08-870-762A-15	Sequence 15, Appl
53	116	83.5	36	3	US-09-454-533-24	Sequence 24, Appl
54	116	83.5	36	4	US-10-649-138-24	Sequence 24, Appl
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56	116	83.5	36	4	US-10-643-681-10	Sequence 10, Appl
57	116	83.5	36	4	US-10-643-681-19	Sequence 19, Appl
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60	116	83.5	37	2	US-08-851-965-6	Sequence 6, Appl
61	116	83.5	37	2	US-08-851-965-7	Sequence 7, Appl
62	116	83.5	37	2	US-08-851-965-10	Sequence 10, Appl
63	116	83.5	37	2	US-08-851-965-14	Sequence 14, Appl
64	116	83.5	37	2	US-08-851-965-16	Sequence 16, Appl
65	116	83.5	37	2	US-08-851-965-17	Sequence 17, Appl
66	116	83.5	37	2	US-08-851-965-21	Sequence 21, Appl
67	116	83.5	37	2	US-08-870-762A-1	Sequence 1, Appl
68	116	83.5	37	2	US-08-870-762A-2	Sequence 2, Appl
69	116	83.5	37	2	US-08-870-762A-5	Sequence 5, Appl
70	116	83.5	37	3	US-08-870-762A-17	Sequence 17, Appl
71	116	83.5	37	3	US-09-454-533-4	Sequence 4, Appl
72	116	83.5	37	3	US-09-454-533-9	Sequence 9, Appl
73	116	83.5	37	3	US-09-454-533-12	Sequence 12, Appl
74	116	83.5	37	3	US-09-454-533-13	Sequence 13, Appl
75	116	83.5	37	3	US-09-454-533-16	Sequence 16, Appl
76	116	83.5	37	3	US-09-454-533-20	Sequence 20, Appl
77	116	83.5	37	3	US-09-454-533-22	Sequence 22, Appl
78	116	83.5	37	3	US-09-454-533-23	Sequence 23, Appl
79	116	83.5	37	3	US-09-454-533-27	Sequence 27, Appl
80	116	83.5	37	4	US-10-306-645A-1	Sequence 1, Appl
81	116	83.5	37	4	US-10-649-138-4	Sequence 4, Appl
82	116	83.5	37	4	US-10-649-138-9	Sequence 9, Appl
83	116	83.5	37	4	US-10-649-138-12	Sequence 12, Appl
84	116	83.5	37	4	US-10-649-138-13	Sequence 13, Appl
85	116	83.5	37	4	US-10-649-138-16	Sequence 16, Appl
86	116	83.5	37	4	US-10-649-138-20	Sequence 20, Appl
87	116	83.5	37	4	US-10-649-138-22	Sequence 22, Appl
88	116	83.5	37	4	US-10-649-138-23	Sequence 23, Appl
89	116	83.5	37	4	US-10-649-138-27	Sequence 27, Appl
90	116	83.5	37	4	US-10-643-681-1	Sequence 1, Appl
91	116	83.5	37	4	US-10-643-681-7	Sequence 7, Appl
92	116	83.5	37	4	US-10-643-681-8	Sequence 8, Appl
93	116	83.5	37	4	US-10-643-681-11	Sequence 11, Appl
94	116	83.5	37	4	US-10-643-681-15	Sequence 15, Appl
95	116	83.5	37	4	US-10-643-681-17	Sequence 17, Appl
96	116	83.5	37	4	US-10-643-681-18	Sequence 18, Appl
97	116	83.5	37	4	US-10-643-681-22	Sequence 22, Appl
98	116	83.5	37	5	US-10-991-597-9	Sequence 9, Appl
99	116	83.5	37	5	US-10-991-597-14	Sequence 14, Appl
100	116	83.5	37	5	US-10-991-597-17	Sequence 17, Appl

101 116 83.5 37 5 US-10-991-597-18
102 116 83.5 37 5 US-10-991-597-21
103 116 83.5 37 5 US-10-991-597-25
104 116 83.5 37 5 US-10-991-597-27
105 116 83.5 37 5 US-10-991-597-28
106 116 83.5 37 5 US-10-991-597-32
107 116 83.5 37 5 US-10-991-597-47
108 116 83.5 37 5 US-10-775-204-2200
109 116 83.5 37 6 US-11-066-697-321
110 116 83.5 37 6 US-11-066-697-334
111 116 83.5 93 5 US-10-481-696-5
112 112 80.6 36 3 US-09-454-533-14
113 112 80.6 36 3 US-09-454-533-15
114 112 80.6 36 3 US-09-454-533-40
115 112 80.6 36 4 US-10-649-138-14
116 112 80.6 36 4 US-10-649-138-15
117 112 80.6 36 4 US-10-649-138-40
118 112 80.6 36 5 US-10-991-597-19
119 112 80.6 36 5 US-10-991-597-20
120 112 80.6 36 5 US-10-991-597-45
121 111 79.9 36 2 US-08-851-965-24
122 111 79.9 36 4 US-10-643-681-25
123 110 79.1 36 3 US-09-454-533-30
124 110 79.1 36 4 US-10-649-138-30
125 110 79.1 36 5 US-10-991-597-35
126 110 79.1 37 2 US-08-851-965-3
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128 110 79.1 37 3 US-09-454-533-8
129 110 79.1 37 4 US-10-649-138-8
130 110 79.1 37 4 US-10-643-681-5
131 110 79.1 37 5 US-10-991-597-13
132 109 78.4 36 5 US-10-775-180-847
133 109 78.4 37 5 US-10-850-055-34
134 109 78.4 37 5 US-10-993-667-34
135 108 77.7 37 2 US-08-851-965-26
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137 108 77.7 37 4 US-10-649-138-32
138 108 77.7 37 4 US-10-643-681-27
139 108 77.7 37 5 US-10-991-597-37
140 107 77.0 37 3 US-09-454-533-5
141 107 77.0 37 4 US-10-649-138-5
142 107 77.0 37 5 US-10-991-597-10
143 103.5 74.5 36 4 US-10-301-488A-47
144 103.5 74.5 36 4 US-10-301-448-47
145 103 74.1 37 2 US-08-851-965-29
146 103 74.1 37 2 US-08-870-762A-6
147 103 74.1 37 3 US-09-454-533-34
148 103 74.1 37 4 US-10-649-138-34
149 103 74.1 37 5 US-10-991-597-39
150 102 73.4 36 2 US-08-851-965-2

ALIGNMENTS

RESULT 1
US-08-851-965-5
; Sequence 5, Application US/08851965
; Publication No. US20020010133A1
; GENERAL INFORMATION:
; APPLICANT: YOUNG, Andrew A.
; APPLICANT: GEDULIN, Bronislava
; APPLICANT: BEYNON, Gareth Wyn
; TITLE OF INVENTION: METHOD FOR PREVENTING GASTRITIS
; TITLE OF INVENTION: USING AMYLIN OR AMYLIN
; TITLE OF INVENTION: AGONISTS
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA

; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/851,965
; FILING DATE: 06-MAY-1997
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 224/042
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 1-6
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 36
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-851-965-5

Query Match 84.9%; Score 118; DB 2; Length 36;
Best Local Similarity 68.6%; Pred. No. 6.9e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATCATQRLKNFLXXXXXXNXPXTXVGSNTY 37
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Db 2 NTATCATQRLANFLVRSSNFGPILPSTNVGSNTY 36
||||| ||||| ||||| ||||| ||||| |||||

RESULT 2
US-08-851-965-12
; Sequence 12, Application US/08851965
; Publication No. US20020010133A1
; GENERAL INFORMATION:
; APPLICANT: YOUNG, Andrew A.
; APPLICANT: GEDULIN, Bronislava
; APPLICANT: BEYNON, Gareth Wyn
; TITLE OF INVENTION: METHOD FOR PREVENTING GASTRITIS
; TITLE OF INVENTION: USING AMYLIN OR AMYLIN
; TITLE OF INVENTION: AGONISTS
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/851,965
; FILING DATE: 06-MAY-1997
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219

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; REFERENCE/DOCKET NUMBER: 224/042
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 1,6
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 36
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; US-08-951-965-12
Query Match 84.9%; Score 118; DB 2; Length 36;
Best Local Similarity 68.6%; Pred. No. 6.9e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
;
Qy 3 NTATXATQRLXNLFXXXXXNKGPKLPTXTVGSNTY 37
Db 2 NTATCATQRLANFLVHSSNLPGLPSTNVGSNTY 36
;
RESULT 3
US-08-951-965-35
; Sequence 35, Application US/08851965
; Publication No. US20020010133A1
; GENERAL INFORMATION:
; APPLICANT: YOUNG, Andrew A.
; APPLICANT: GEDULIN, Bronislava
; APPLICANT: BEYNON, Gareth Wyn
; TITLE OF INVENTION: METHOD FOR PREVENTING GASTRITIS
; TITLE OF INVENTION: USING AMYLIN OR AMYLIN
; TITLE OF INVENTION: AGONISTS
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/951.965
; FILING DATE: 06-MAY-1997
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 224/042
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-0440
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
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; LOCATION: 1,6
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 36
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; US-08-951-965-35
Query Match 84.9%; Score 118; DB 2; Length 36;
Best Local Similarity 68.6%; Pred. No. 6.9e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
;
Qy 3 NTATXATQRLXNLFXXXXXNKGPKLPTXTVGSNTY 37
Db 2 NTATCATQRLANFLVHSSNLPGLPSTNVGSNTY 36
;
RESULT 4
US-08-970-762A-12
; Sequence 12, Application US/08870762A
; Publication No. US20030026812A1
; GENERAL INFORMATION:
; APPLICANT: Duft, Bradford
; APPLICANT: Kolterman, Orville
; TITLE OF INVENTION: METHODS FOR TREATING OBESITY
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/870,762A
; FILING DATE: 06-JUN-1997
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 226/104
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-2200
; TELEFAX: 619-552-0159
; TELEX:
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 1,6
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 36
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; US-08-970-762A-12
Query Match 84.9%; Score 118; DB 2; Length 36;
Best Local Similarity 68.6%; Pred. No. 6.9e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
;
Qy 3 NTATXATQRLXNLFXXXXXNKGPKLPTXTVGSNTY 37
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Db 2 NTATCATQRLANFLVHSSNFGPILPSTNVGSNTY 36

RESULT 5

US-08-870-762A-13
; Sequence 13, Application US/08870762A
; Publication No. US20030026812A1
; GENERAL INFORMATION:
; APPLICANT: Duft, Bradford
; APPLICANT: Kolterman, Orville
; TITLE OF INVENTION: METHODS FOR TREATING OBESITY
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066

COMPUTER READABLE FORM:
MEDIUM TYPE: Dikette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 2.0

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/870,762A
FILING DATE: 06-JUN-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 226/104

TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-552-2200
TELEFAX: 619-552-0159
TELEX:
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 36 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
LOCATION: 1,6
OTHER INFORMATION: disulfide bridge between
the Cys residues

OTHER INFORMATION: amidated Tyr (Tyrosinamide)
LOCATION: 36
US-08-870-762A-13
Query Match 84.9%; Score 118; DB 2; Length 36;
Best Local Similarity 68.6%; Pred. No. 6.9e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Yy 3 NTATCATQRLANFLVHSSNFGPILPSTNVGSNTY 37

Db 2 NTATCATQRLANFLVHSSNFGPILPSTNVGSNTY 36

RESULT 6

US-09-454-533-18
; Sequence 18, Application US/09454533
; Publication No. US20020187923A1
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:

ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/454,533
FILING DATE: 06-Dec-1999
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/892,549
FILING DATE: <Unknown>
APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991
APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991

NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 227/006

TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 36 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:

LOCATION: 36
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
SEQUENCE DESCRIPTION: SEQ ID NO: 18:
US-09-454-533-18
Query Match 84.9%; Score 118; DB 3; Length 36;
Best Local Similarity 68.6%; Pred. No. 6.9e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Yy 3 NTATCATQRLANFLVHSSNFGPILPSTNVGSNTY 37

Db 2 NTATCATQRLANFLVHSSNFGPILPSTNVGSNTY 36

RESULT 7

US-09-454-533-39
; Sequence 39, Application US/09454533
; Publication No. US20020187923A1
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:

ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25

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;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/454,533
; FILING DATE: 06-Dec-1999
; CLASSIFICATION: <Unknown>
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/892,549
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
;
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
;
; INFORMATION FOR SEQ ID NO: 39
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 36
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 39:
US-09-454-533-39
Query Match 84.9%; Score 118; DB 3; Length 36;
Best Local Similarity 68.6%; Pred. No. 6.9e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNGPKPLXPTXVGSNTY 37
|||||
Db 2 NTATCATQRLANFLVHSSNFGPILPSTNVGSNTY 36
|||||

RESULT 8
US-10-649-138-18
; Sequence 18, Application US/10649138
; Publication No. US20040038900A1
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S. L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/649,138
; FILING DATE: 26-Aug-2003
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/454,533
; FILING DATE: 06-Dec-1999
; APPLICATION NUMBER: 08/892,549
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
```

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;
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
;
; INFORMATION FOR SEQ ID NO: 18
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 36
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 18:
US-10-649-138-18
Query Match 84.9%; Score 118; DB 4; Length 36;
Best Local Similarity 68.6%; Pred. No. 6.9e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNGPKPLXPTXVGSNTY 37
|||||
Db 2 NTATCATQRLANFLVHSSNGLPVPSTNVGSNTY 36
|||||

RESULT 9
US-10-649-138-39
; Sequence 39, Application US/10649138
; Publication No. US20040038900A1
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S. L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/649,138
; FILING DATE: 26-Aug-2003
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/454,533
; FILING DATE: 06-Dec-1999
; APPLICATION NUMBER: 08/892,549
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
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TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 39
SEQUENCE CHARACTERISTICS:
LENGTH: 36 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
LOCATION: 36
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
SEQUENCE DESCRIPTION: SEQ ID NO: 39:
US-10-649-138-39

Query Match 84.9%; Score 118; DB 4; Length 36;
Best Local Similarity 68.6%; Pred. No. 6.9e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
Qy 3 NTATXATQRLXNFXLXXXXXNKGXPLPXTXVGSNTY 37
||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2 NTATCATQRLANFLVHSSNNFGPILPSTNVSNTY 36

RESULT 10
US-10-643-681-6
; Sequence 6, Application US/10643681
; Publication No. US20040097415A1
; GENERAL INFORMATION:
; APPLICANT: KOLTERMAN, Orville G.
; YOUNG, Andrew A.
; RINK, Timothy J.
; BROWN, Kathleen Ann Keiting
; TITLE OF INVENTION: METHODS FOR REGULATING
; GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/643,681
; FILING DATE: 18-Aug-2003
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/302,069A
; FILING DATE: 07-SEP-1994
; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 209/146
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 36
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-10-643-681-6

OTHER INFORMATION: amidated Tyr (Tyrosinamide)
SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-10-643-681-6
Query Match 84.9%; Score 118; DB 4; Length 36;
Best Local Similarity 68.6%; Pred. No. 6.9e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
Qy 3 NTATXATQRLXNFXLXXXXXNKGXPLPXTXVGSNTY 37
||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2 NTATCATQRLANFLVHSSNNFGPILPSTNVSNTY 36
RESULT 11
US-10-643-681-13
; Sequence 13, Application US/10643681
; Publication No. US20040097415A1
; GENERAL INFORMATION:
; APPLICANT: KOLTERMAN, Orville G.
; YOUNG, Andrew A.
; RINK, Timothy J.
; BROWN, Kathleen Ann Keiting
; TITLE OF INVENTION: METHODS FOR REGULATING
; GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/643,681
; FILING DATE: 18-Aug-2003
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/302,069A
; FILING DATE: 07-SEP-1994
; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 209/146
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 36
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-10-643-681-13
Query Match 84.9%; Score 118; DB 4; Length 36;
Best Local Similarity 68.6%; Pred. No. 6.9e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
Qy 3 NTATXATQRLXNFXLXXXXXNKGXPLPXTXVGSNTY 37
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Db 2 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 36

RESULT 12

US-10-991-597-23
; Sequence 23, Application US/10991597
; Publication No. US20050143303A1
; GENERAL INFORMATION:
; APPLICANT: Quay, Steven C.
; APPLICANT: Costantino, Henry R.
; TITLE OF INVENTION: INTRANASAL ADMINISTRATION OF
; FILE REFERENCE: 03-14US
; CURRENT APPLICATION NUMBER: US/10/991,597
; CURRENT FILING DATE: 2004-11-18
; PRIOR FILING DATE: 2003-12-26
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 23
; LENGTH: 36
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-991-597-23

Query Match 84.9%; Score 118; DB 5; Length 36;
Best Local Similarity 68.6%; Pred. No. 6.9e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNLFXXXXXXXXXGPKLPXTXVGSNTY 37
|||||
Db 2 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 36

RESULT 13

US-10-991-597-44
; Sequence 44, Application US/10991597
; Publication No. US20050143303A1
; GENERAL INFORMATION:
; APPLICANT: Quay, Steven C.
; APPLICANT: Costantino, Henry R.
; TITLE OF INVENTION: INTRANASAL ADMINISTRATION OF
; FILE REFERENCE: 03-14US
; CURRENT APPLICATION NUMBER: US/10/991,597
; CURRENT FILING DATE: 2004-11-18
; PRIOR FILING DATE: 2003-12-26
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 44
; LENGTH: 36
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-991-597-44

Query Match 84.9%; Score 118; DB 5; Length 36;
Best Local Similarity 68.6%; Pred. No. 6.9e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNLFXXXXXXXXXGPKLPXTXVGSNTY 37
|||||
Db 2 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 36

RESULT 14

US-08-851-965-4
; Sequence 4, Application US/08851965
; Publication No. US20020010133A1
; GENERAL INFORMATION:
; APPLICANT: YOUNG, Andrew A.
; APPLICANT: GEDULIN, Bronislava
; APPLICANT: BEYNON, Gareth Wyn

; TITLE OF INVENTION: METHOD FOR PREVENTING GASTRITIS
; TITLE OF INVENTION: USING AMYLIN OR AMYLIN
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/851,965
; FILING DATE: 06-MAY-1997
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 224/042
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 2,7
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-851-965-4

Query Match 84.9%; Score 118; DB 2; Length 37;
Best Local Similarity 68.6%; Pred. No. 7.1e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNLFXXXXXXXXXGPKLPXTXVGSNTY 37
|||||
Db 3 NTATCATQRLANFLVRSSNNPGLPSTNVGSNTY 37

RESULT 15

US-08-851-965-11
; Sequence 11, Application US/08851965
; Publication No. US20020010133A1
; GENERAL INFORMATION:
; APPLICANT: YOUNG, Andrew A.
; APPLICANT: GEDULIN, Bronislava
; APPLICANT: BEYNON, Gareth Wyn
; TITLE OF INVENTION: METHOD FOR PREVENTING GASTRITIS
; TITLE OF INVENTION: USING AMYLIN OR AMYLIN
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-851-965-15

Query Match 84.9%; Score 118; DB 2; Length 37;
Best Local Similarity 68.6%; Pred. No. 7.1e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLANFLXXXXXNGPKLPXTXVGSNTY 37
|||||
Db 3 NTATCATQRLANFLVRSSNNLPGILPSTNVGSNTY 37

RESULT 18

US-08-851-965-34
; Sequence 34, Application US/08851965
; Publication No. US20020010133A1
; GENERAL INFORMATION:
; APPLICANT: YOUNG, Andrew A.
; APPLICANT: GEDULIN, Bronislava
; APPLICANT: BEYNON, Gareth Wyn
; TITLE OF INVENTION: METHOD FOR PREVENTING GASTRITIS
; TITLE OF INVENTION: USING AMYLIN OR AMYLIN
; TITLE OF INVENTION: AGONISTS
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/851,965
; FILING DATE: 06-MAY-1997
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 224/042
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 2,7
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-851-965-34

Query Match 84.9%; Score 118; DB 2; Length 37;
Best Local Similarity 68.6%; Pred. No. 7.1e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLANFLXXXXXNGPKLPXTXVGSNTY 37
|||||
Db 3 NTATCATQRLANFLVRSSNNLPGILPSTNVGSNTY 37

RESULT 19

US-08-870-762A-3
; Sequence 3, Application US/08870762A
; Publication No. US20030026812A1
; GENERAL INFORMATION:
; APPLICANT: Duft, Bradford
; APPLICANT: Kolterman, Orville
; TITLE OF INVENTION: METHODS FOR TREATING OBESITY
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/870,762A
; FILING DATE: 06-JUN-1997
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 226/104
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-2200
; TELEFAX: 619-552-0159
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Peptide
; FEATURE:
; LOCATION: 2,7
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-870-762A-3

Query Match 84.9%; Score 118; DB 2; Length 37;
Best Local Similarity 68.6%; Pred. No. 7.1e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLANFLXXXXXNGPKLPXTXVGSNTY 37
|||||
Db 3 NTATCATQRLANFLVRSSNNLPGILPSTNVGSNTY 37

RESULT 20

US-08-870-762A-11
; Sequence 11, Application US/08870762A
; Publication No. US20030026812A1
; GENERAL INFORMATION:
; APPLICANT: Duft, Bradford
; APPLICANT: Kolterman, Orville
; TITLE OF INVENTION: METHODS FOR TREATING OBESITY
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES

```
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: Fast-SEQ Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/870,762A
; FILING DATE: 06-JUN-1997
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 226/104
; TELEPHONE: 619-552-2200
; TELEFAX: 619-552-0159
; TELEX:
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 2,7
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; US-08-870-762A-11

Query Match 84.9%; Score 118; DB 2; Length 37;
Best Local Similarity 68.6%; Pred. No. 7.le-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Oy 3 NTATXATQRLXNFLXXXXXNGPXLPTXVGSNTY 37
|||||
Db 3 NTATCATQRLANFLVHSSNFGPILPSTNVGSNTY 37
|||||

RESULT 21
US-09-454-533-10
; Sequence 10, Application US/09454533
; Publication No. US20020187923A1
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/454,533
; FILING DATE: 06-Dec-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/892,549
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
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; APPLICATION NUMBER: 08/892,549
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 10:
US-09-454-533-10

Query Match 84.9%; Score 118; DB 3; Length 37;
Best Local Similarity 68.6%; Pred. No. 7.le-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Oy 3 NTATXATQRLXNFLXXXXXNGPXLPTXVGSNTY 37
|||||
Db 3 NTATCATQRLANFLVHSSNFGPILPSTNVGSNTY 37
|||||

RESULT 22
US-09-454-533-17
; Sequence 17, Application US/09454533
; Publication No. US20020187923A1
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/454,533
; FILING DATE: 06-Dec-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/892,549
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
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;
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 17:
US-09-454-533-17
Query Match 84.9%; Score 118; DB 3; Length 37;
Best Local Similarity 68.6%; Pred. No. 7.1e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
;
QY 3 NTATXATQRLNFXLXXXXXXNGPXLPTXVGSNTY 37
|||||
Db 3 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 37
|||||

RESULT 23
US-09-454-533-19
; Sequence 19, Application US/09454533
; Publication No. US20020187923A1
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/454,533
; FILING DATE: 06-Dec-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/892,549
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 19:
US-09-454-533-21
Query Match 84.9%; Score 118; DB 3; Length 37;
Best Local Similarity 68.6%; Pred. No. 7.1e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
;
QY 3 NTATXATQRLNFXLXXXXXXNGPXLPTXVGSNTY 37
|||||
Db 3 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 37
|||||

RESULT 24
US-09-454-533-21
; Sequence 21, Application US/09454533
; Publication No. US20020187923A1
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/454,533
; FILING DATE: 06-Dec-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/892,549
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 21:
US-09-454-533-21
Query Match 84.9%; Score 118; DB 3; Length 37;
Best Local Similarity 68.6%; Pred. No. 7.1e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
;
QY 3 NTATXATQRLNFXLXXXXXXNGPXLPTXVGSNTY 37
|||||
Db 3 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 37
|||||
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/649,138
FILING DATE: 26-Aug-2003
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/454,533
FILING DATE: 06-Dec-1999
APPLICATION NUMBER: 08/892,549
FILING DATE: <Unknown>
APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991
APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 227/006
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
SEQUENCE DESCRIPTION: SEQ ID NO: 17:
US-10-649-138-17

Query Match 84.9%; Score 118; DB 4; Length 37;
Best Local Similarity 68.6%; Pred. No. 7.1e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
Qy 3 NTATXATQRLXNLFXXXXXNGPXLPTXXVGSNTY 37
||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 3 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 37
RESULT 28
US-10-649-138-19
Sequence 19, Application US/10649138
Publication No. US20040038900A1
GENERAL INFORMATION:
APPLICANT: GAETA, Laura S.L. Et Al.
TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
USSES THEREFOR
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/649,138
FILING DATE: 26-Aug-2003
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/454,533
FILING DATE: 06-Dec-1999
APPLICATION NUMBER: 08/892,549
FILING DATE: <Unknown>
APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991
APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 227/006
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
SEQUENCE DESCRIPTION: SEQ ID NO: 19:
US-10-649-138-19
Query Match 84.9%; Score 118; DB 4; Length 37;
Best Local Similarity 68.6%; Pred. No. 7.1e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
Qy 3 NTATXATQRLXNLFXXXXXNGPXLPTXXVGSNTY 37
||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 3 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 37
RESULT 29
US-10-649-138-21
Sequence 21, Application US/10649138
Publication No. US20040038900A1
GENERAL INFORMATION:
APPLICANT: GAETA, Laura S.L. Et Al.
TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
USSES THEREFOR
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/649,138
FILING DATE: 26-Aug-2003
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/454,533
FILING DATE: 06-Dec-1999
APPLICATION NUMBER: 08/892,549
FILING DATE: <Unknown>
APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991
APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991
ATTORNEY/AGENT INFORMATION:

```
;
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 21:
US-10-649-138-21

Query Match      84.9%; Score 118; DB 4; Length 37;
Best Local Similarity 68.6%; Pred. NO. 7.1e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNLFXXXXXXXXXGPKLPXTXVGSNTY 37
Db 3 NTATCATQRLANFLVRSSNNLGPILPSTNVGSNTY 37

RESULT 30
US-10-649-138-38
; Sequence 38, Application US/10649138
; Publication No. US20040038900A1
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/649,138
; FILING DATE: 26-Aug-2003
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/454,533
; FILING DATE: 06-Dec-1999
; APPLICATION NUMBER: 08/892,549
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 38
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 38
US-10-643-681-3

NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 227/006
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
SEQUENCE DESCRIPTION: SEQ ID NO: 21:
US-10-649-138-38

Query Match      84.9%; Score 118; DB 4; Length 37;
Best Local Similarity 68.6%; Pred. NO. 7.1e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNLFXXXXXXXXXGPKLPXTXVGSNTY 37
Db 3 NTATCATQRLANFLVRSSNNLGPILPSTNVGSNTY 37

RESULT 31
US-10-643-681-3
; Sequence 3, Application US/10643681
; Publication No. US20040097415A1
; GENERAL INFORMATION:
; APPLICANT: KOLTERMAN, Orville G.
; YOUNG, Andrew A.
; RINK, Timothy J.
; BROWN, Kathleen Ann Keiting
; TITLE OF INVENTION: METHODS FOR REGULATING
; GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/643,681
; FILING DATE: 18-Aug-2003
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/302,069A
; FILING DATE: 07-SEP-1994
; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 209/146
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-10-643-681-3
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RESULT 38
US-10-991-597-26
; Sequence 26, Application US/10991597
; Publication No. US20050143303A1
; GENERAL INFORMATION:
; APPLICANT: Quay, Steven C.
; TITLE OF INVENTION: INTRANASAL ADMINISTRATION OF
; FILE REFERENCE: 03-14US
; CURRENT APPLICATION NUMBER: US/10/991,597
; CURRENT FILING DATE: 2004-11-18
; PRIOR APPLICATION NUMBER: 60/532,337
; PRIOR FILING DATE: 2003-12-26
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-991-597-26
Query Match 84.9%; Score 118; DB 5; Length 37;
Best Local Similarity 68.6%; Pred. No. 7.1e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNPLXXXXXNGXPXLPXTXVGSNTY 37
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Db 3 NTATCATQRLANFLVRSSNNLGPILPSTNVGSNTY 37

RESULT 39
US-10-991-597-43
; Sequence 43, Application US/10991597
; Publication No. US20050143303A1
; GENERAL INFORMATION:
; APPLICANT: Quay, Steven C.
; TITLE OF INVENTION: INTRANASAL ADMINISTRATION OF
; FILE REFERENCE: 03-14US
; CURRENT APPLICATION NUMBER: US/10/991,597
; CURRENT FILING DATE: 2004-11-18
; PRIOR APPLICATION NUMBER: 60/532,337
; PRIOR FILING DATE: 2003-12-26
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 43
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-991-597-43
Query Match 84.9%; Score 118; DB 5; Length 37;
Best Local Similarity 68.6%; Pred. No. 7.1e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNPLXXXXXNGXPXLPXTXVGSNTY 37
||||| ||||| ||||| ||||| ||||| |||||
Db 3 NTATCATQRLANFLVHSSNNFGPILPSTNVGSNTY 37

RESULT 40
US-09-454-533-11
; Sequence 11, Application US/09454533
; Publication No. US20020187923A1
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
```

```
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/454,533
FILING DATE: 06-Dec-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/892,549
FILING DATE: <Unknown>
APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991
APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 227/006
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 36 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
LOCATION: 36
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-09-454-533-11
Query Match 84.2%; Score 117; DB 3; Length 36;
Best Local Similarity 68.6%; Pred. No. 1.1e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNPLXXXXXNGXPXLPXTXVGSNTY 37
||||| ||||| ||||| ||||| ||||| |||||
Db 2 NTATCATQRLANFLVHRSNNEGPILPSTNVGSNTY 36

RESULT 41
US-10-649-138-11
; Sequence 11, Application US/10649138
; Publication No. US20040038900A1
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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;; APPLICATION NUMBER: US/10/649,138
;; FILING DATE: 26-Aug-2003
;; CLASSIFICATION: <Unknown>
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US/09/454,533
;; FILING DATE: 06-Dec-1999
;; APPLICATION NUMBER: 08/892,549
;; FILING DATE: <Unknown>
;; APPLICATION NUMBER: 07/794,266
;; FILING DATE: 19-NOV-1991
;; APPLICATION NUMBER: US 07/667,040
;; FILING DATE: 08-MAR-1991
;; ATTORNEY/AGENT INFORMATION:
;; NAME: DUFT, BRADFORD J.
;; REGISTRATION NUMBER: 32,219
;; REFERENCE/DOCKET NUMBER: 227/006
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 619/552-2200
;; TELEFAX: 213/955-0440
;; TELEX: 67-3510
;; INFORMATION FOR SEQ ID NO: 11:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 36 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
;; FEATURE:
;; LOCATION: 36
;; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
;; SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-10-649-138-11

Query Match 84.2%; Score 117; DB 4; Length 36;
Best Local Similarity 68.6%; Pred. No. 1.1e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 3 NTATXATQRLXNLFXXXXXXXXXGXPXLPXTXVGSNTY 37
DB 2 NTATCATQRLANFLVHRSNNFGPILPSTNVGSNTY 36

RESULT 42
US-10-991-597-16
;; Sequence 16, Application US/10991597
;; Publication No. US20050143303A1
;; GENERAL INFORMATION:
;; APPLICANT: Quay, Steven C.
;; TITLE OF INVENTION: INTRANASAL ADMINISTRATION OF
;; FILE REFERENCE: 03-14US
;; CURRENT APPLICATION NUMBER: US/10/991,597
;; CURRENT FILING DATE: 2004-11-18
;; PRIOR APPLICATION NUMBER: 60/532,337
;; PRIOR FILING DATE: 2003-12-26
;; NUMBER OF SEQ ID NOS: 47
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 16
;; LENGTH: 36
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-10-991-597-16

Query Match 84.2%; Score 117; DB 5; Length 36;
Best Local Similarity 68.6%; Pred. No. 1.1e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 3 NTATXATQRLXNLFXXXXXXXXXGXPXLPXTXVGSNTY 37
DB 2 NTATCATQRLANFLVHRSNNFGPILPSTNVGSNTY 36

RESULT 43
US-08-851-965-27
;; Sequence 27, Application US/08851965
;; Publication No. US20020010133A1
;; GENERAL INFORMATION:
;; APPLICANT: YOUNG, Andrew A.
;; APPLICANT: GEDULIN, Bronislava
;; APPLICANT: REYNOL, Gareth WYN
;; TITLE OF INVENTION: METHOD FOR PREVENTING GASTRITIS
;; TITLE OF INVENTION: USING AMYLIN OR AMYLIN
;; NUMBER OF SEQUENCES: 35
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: LYON & LYON
;; STREET: 633 WEST FIFTH STREET
;; CITY: LOS ANGELES
;; STATE: CALIFORNIA
;; COUNTRY: USA
;; ZIP: 90017
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patent In Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/851,965
;; FILING DATE: 06-MAY-1997
;; CLASSIFICATION: 514
;; ATTORNEY/AGENT INFORMATION:
;; NAME: DUFT, BRADFORD J.
;; REGISTRATION NUMBER: 32,219
;; REFERENCE/DOCKET NUMBER: 224/042
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 619/552-2200
;; TELEFAX: 213/955-0440
;; TELEX: 67-3510
;; INFORMATION FOR SEQ ID NO: 27:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 37 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; FEATURE:
;; LOCATION: 2,7
;; OTHER INFORMATION: disulfide bridge between
;; OTHER INFORMATION: the Cys residues
;; LOCATION: 37
;; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-851-965-27

Query Match 84.2%; Score 117; DB 2; Length 37;
Best Local Similarity 68.6%; Pred. No. 1.1e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 3 NTATXATQRLXNLFXXXXXXXXXGXPXLPXTXVGSNTY 37
DB 3 NTATCATQRLTNFLVRRSHNIGPALPPTDVGNTY 37

RESULT 44
US-09-454-533-33
;; Sequence 33, Application US/09454533
;; Publication No. US20020187923A1
;; GENERAL INFORMATION:
;; APPLICANT: GAETA, Laura S.L. Et Al.
;; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
;; NUMBER OF SEQUENCES: 41
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: LYON & LYON
;; STREET: 633 WEST FIFTH STREET
;; CITY: LOS ANGELES

STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/454,533
FILING DATE: 06-Dec-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/892,549
FILING DATE: <Unknown>
APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991
APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 227/006
TELEPHONE: 619/552-2200
TELEFAX: 619/552-2200
TELEX: 67-3510
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
SEQUENCE DESCRIPTION: SEQ ID NO: 33:
US-09-454-533-33
Query Match 84.2%; Score 117; DB 3; Length 37;
Best Local Similarity 68.6%; Pred. No. 1.le-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
Qy 3 NTATXATQRLXNLFXXXXXNKGXPLPXTXVGSNTY 37
Db 3 NTATCATQRLTNFLVRSSHNGLPALPPTDVGSTY 37
RESULT 45
US-10-649-138-33
Sequence 33, Application US/10649138
Publication No. US20040038900A1
GENERAL INFORMATION:
APPLICANT: GAETA, Laura S.L. Et Al.
TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
USES THEREFOR
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/649,138
FILING DATE: 26-Aug-2003

CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/454,533
FILING DATE: 06-Dec-1999
APPLICATION NUMBER: 08/892,549
FILING DATE: <Unknown>
APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991
APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 227/006
TELEPHONE: 619/552-2200
TELEFAX: 619/552-2200
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 33
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
SEQUENCE DESCRIPTION: SEQ ID NO: 33:
US-10-649-138-33
Query Match 84.2%; Score 117; DB 4; Length 37;
Best Local Similarity 68.6%; Pred. No. 1.le-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
Qy 3 NTATXATQRLXNLFXXXXXNKGXPLPXTXVGSNTY 37
Db 3 NTATCATQRLTNFLVRSSHNGLPALPPTDVGSTY 37
RESULT 46
US-10-643-681-28
Sequence 28, Application US/10643681
Publication No. US20040097415A1
GENERAL INFORMATION:
APPLICANT: KOLTERMAN, Orville G.
YOUNG, Andrew A.
RINK, Timothy J.
BROWN, Kathleen Ann Keiting
TITLE OF INVENTION: METHODS FOR REGULATING
GASTROINTESTINAL MOTILITY
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/643,681
FILING DATE: 18-Aug-2003
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/302,069A
FILING DATE: 07-SEP-1994
APPLICATION NUMBER: 08/118,381
FILING DATE: 07-SEP-1993

APPLICATION NUMBER: US/08/851,965
FILING DATE: 06-MAY-1997
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 224/042
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 36 amino acids
TYPE: amino acid
STRANDEDNESS: single
MOLECULE TYPE: protein
FEATURE:
LOCATION: 1,6
OTHER INFORMATION: disulfide bridge between
the Cys residues
LOCATION: 36
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-851-965-9

Query Match 83.5%; Score 116; DB 2; Length 36;
Best Local Similarity 68.6%; Pred. No. 1.7e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNGPXLPTXVGSNTY 37
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Db 2 NTATCATQRLANFLVHSSNNLGPILPPTNVGSNTY 36

RESULT 50

US-08-851-965-18
Sequence 18, Application US/08851965
Publication No. US20020010133A1
GENERAL INFORMATION:
APPLICANT: YOUNG, Andrew A.
APPLICANT: GEDULIN, Bronislava
APPLICANT: BEYNON, Gareth Wyn
TITLE OF INVENTION: METHOD FOR PREVENTING GASTRITIS
TITLE OF INVENTION: USING AMYLIN OR AMYLIN
TITLE OF INVENTION: AGONISTS
NUMBER OF SEQUENCES: 35
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/851,965
FILING DATE: 06-MAY-1997
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 224/042
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:

LENGTH: 36 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
LOCATION: 1,6
OTHER INFORMATION: disulfide bridge between
the Cys residues
LOCATION: 36
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-851-965-18

Query Match 83.5%; Score 116; DB 2; Length 36;
Best Local Similarity 68.6%; Pred. No. 1.7e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNGPXLPTXVGSNTY 37
|||||
Db 2 NTATCATQRLANFLVHSSNNLGPILPPTNVGSNTY 36

Search completed: January 4, 2006, 11:59:53
Job time : 165 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: January 4, 2006, 11:30:41 ; Search time 227 Seconds

(without alignments)
114.998 Million cell updates/sec

Title: US-09-445-517-14

Perfect score: 139

Sequence: 1 XXNTATXATQRLXNLFXXXXXXNGXPXLPXTXVGSNTY 37

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2166443 seqs, 705528306 residues

Total number of hits satisfying chosen parameters: 2166443

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 150 summaries

Database : UniProt_05.80.*

1: uniprot_sprot.*

2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	116	83.5	93	1	IAPP_MOUSE
2	116	83.5	93	1	IAPP_MOUSE
3	109	78.4	91	1	IAPP_MOUSE
4	107	77.0	37	1	IAPP_MOUSE
5	107	77.0	92	1	IAPP_MOUSE
6	102	73.4	89	1	IAPP_MOUSE
7	100	71.9	89	1	IAPP_MOUSE
8	100	71.9	89	1	IAPP_MOUSE
9	99	71.2	92	1	IAPP_MOUSE
10	87	62.6	135	2	Q90743_CHICK
11	78	56.1	66	2	Q9BEF0_ERIEU
12	72	51.8	51	2	Q4TB97_TETNG
13	69	49.6	67	1	IAPP_MOUSE
14	66	47.5	32	1	IAPP_MOUSE
15	63	45.3	32	1	IAPP_MOUSE
16	58	41.7	32	1	IAPP_MOUSE
17	58	41.7	115	1	CALCB_PHYBI
18	51	36.7	126	2	Q6DQJ9_BRARE
19	50	36.0	32	1	IAPP_MOUSE
20	50	36.0	37	1	CALCB_MOUSE
21	49	35.3	52	2	P79814_ONCGO
22	49	35.3	126	2	Q8QFT9_FUGRU
23	49	35.3	184	2	Q4S167_TETNG
24	48	34.5	56	2	Q22164_ONCSP
25	48	34.5	125	1	CALCB_CHICK
26	46	33.1	25	2	Q9BEE1_MACRU
27	45.5	32.7	560	2	Q59PM5_CANAL
28	45	32.4	51	2	Q4S173_TETNG
29	43.5	31.3	667	2	Q9X748_HELPY
30	43	30.9	23	1	IAPP_MOUSE
31	43	30.9	37	1	CALCB_MOUSE

32	43	30.9	44	2	Q4THN9_TETNG
33	43	30.9	53	2	Q8WNX2_CALJA
34	43	30.9	127	1	CALCB_MOUSE
35	43	30.9	127	1	Q56910_HUMAN
36	43	30.9	130	1	CALCB_MOUSE
37	43	30.9	469	1	Q0B1_CABEL
38	43	30.9	482	2	Q4WLC6_ASPTU
39	43	30.9	1502	2	Q5SHY4_CRYNE
40	43	30.9	1502	2	Q5K7G8_CRYNE
41	42	30.2	37	1	CALCA_SHEEP
42	42	30.2	50	2	Q66VCI_RAT
43	42	30.2	128	1	CALCA_MOUSE
44	42	30.2	128	1	CALCA_MOUSE
45	42	30.2	129	1	CALCB_MOUSE
46	42	30.2	171	2	Q51QAI_MAGGR
47	42	30.2	378	2	Q411A8_GIBZE
48	42	30.2	465	2	Q9Y029_DROME
49	42	30.2	534	2	P92031_DROME
50	42	30.2	534	2	Q9VJ37_DROME
51	42	30.2	853	2	Q7RYF3_NEUGR
52	42	30.2	916	2	Q7UZ06_RHOBA
53	42	30.2	1121	2	Q615K0_CABER
54	42	30.2	1974	2	Q688L3_ORYSA
55	42	30.2	3902	2	Q4SC60_TETNG
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57	41.5	29.9	669	2	Q9X747_HELPY
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59	41	29.5	128	1	CALCA_MOUSE
60	41	29.5	134	1	CALCB_MOUSE
61	41	29.5	363	2	Q8TTZ1_METAC
62	41	29.5	413	2	Q6CLA9_KUULA
63	41	29.5	850	2	Q5KGH4_CRYNE
64	41	29.5	905	2	Q5S922_CRYNE
65	40	28.8	89	2	Q9UZB5_PYRAB
66	40	28.8	201	2	Q811B4_MOUSE
67	40	28.8	232	2	Q8KAW5_CHLTE
68	40	28.8	461	2	Q4H7N0_9DEIO
69	40	28.8	486	2	Q66UT4_MOUSE
70	40	28.8	512	2	Q5TGN7_HUMAN
71	40	28.8	597	2	Q88JQ3_PSEPK
72	40	28.8	772	2	Q54J94_DICDI
73	40	28.8	789	2	Q7RMW7_PLAYO
74	40	28.8	1075	2	Q5CGP3_CRYHO
75	40	28.8	1115	2	Q9BL72_CABEL
76	40	28.8	1165	2	Q6F3F9_MOUSE
77	40	28.8	1193	2	Q6F3F7_HUMAN
78	40	28.8	1221	1	Q6126_HUMAN
79	40	28.8	1221	2	Q6F3F8_HUMAN
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81	40	28.8	1222	2	Q81XA4_HUMAN
82	40	28.8	1222	2	Q6DHZ4_HUMAN
83	40	28.8	1250	2	Q6F3F6_HUMAN
84	40	28.8	1636	1	PTN23_HUMAN
85	39.5	28.4	192	1	Y525_BUCAP
86	39.5	28.4	2153	2	Q9YQR5_VIRIU
87	39	28.1	316	2	Q6CTY0_KUULA
88	39	28.1	384	2	Q9A4K3_CAUCR
89	39	28.1	405	1	RMDH_METJA
90	39	28.1	436	2	Q75525_ASHGO
91	39	28.1	454	2	Q5V6X5_HALMA
92	39	28.1	461	2	Q4NKC8_9MICC
93	39	28.1	581	2	Q5E070_VIBFI
94	39	28.1	587	2	Q5Y87_CRYNE
95	39	28.1	587	2	Q5KLQ1_CRYNE
96	39	28.1	665	2	Q6CH71_YARLI
97	39	28.1	774	2	Q17124_BRACL
98	39	28.1	774	2	Q8D1P8_TERPE
99	39	28.1	776	2	Q74PN4_YERPE
100	39	28.1	830	2	Q6QDZ2_YERPS
101	39	28.1	833	2	Q8ZAV3_YERPE
102	39	28.1	877	2	Q6XD55_XENLA
103	39	28.1	877	2	Q6PCK5_XENLA
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Q4thn9	tetraodon n
Q8wnx2	callithrix
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Q5shy4	cryptococcu
Q5K7G8	cryptococcu
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Q66vci	rattus norv
Q99ja0	mus musculus
P01256	rattus norv
Q9n0t3	equus cabal
Q51qai	magnaporthe
Q411a8	gibberella
Q9Y029	drosophila
P92031	drosophila
Q9VJ37	drosophila
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Q615k0	caenorhabdi
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Q4sc60	tetraodon n
Q9zn51	helicobacte
Q9x747	helicobacte
Q6dgm9	brachydanio
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P10093	rattus norv
Q8ttz1	methanosarc
Q6cla9	kluyveromyc
Q5kgH4	cryptococcu
Q5s922	cryptococcu
Q9uze5	pyrococcus
Q811e4	mus musculus
Q8kaw5	chlorobium
Q4h7n0	deinococcus
Q66ut4	mus musculus
Q5tgn7	homo sapien
Q88jq3	pseudomonas
Q54j94	dictyosteli
Q7rmw7	plasmodium
Q5cgp3	cryptospori
Q9bl72	caenorhabdi
Q6f3f9	mus musculus
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Q6f3f8	homo sapien
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Q9h3e7	homo sapien
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Q6cty0	kluyveromyc
Q9a4k3	caulobacter
Q55116	methanococc
Q5v6x5	haloarcula
Q4nkc8	arthrobacte
Q5e070	vibrio fisc
Q5y87	cryptococcu
Q5klq1	cryptococcu
Q6ch71	yarrowia li
Q17124	branchiost
Q8d1p8	versinia pe
Q74pn4	versinia pe
Q6qdZ2	versinia ps
Q8ZAV3	versinia ps
Q6XD55	xenopus lae
Q6PCK5	xenopus lae
Q55W56	cryptococcu


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FT PROPEP 78 93 Tyrosine amide (G-75 provides amide
FT MOD_RES 74 74 group).
FT DISULFID 39 44 By similarity.
SQ SEQUENCE 93 AA; 10022 MW; B135DBBC81475B15 CRC64;
Query Match 83.5%; Score 116; DB 1; Length 93;
Best Local Similarity 68.6%; Pred. No. 1.7e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
Qy 3 NTATXATQRLXNFXLXXXXXGXPLPXTXVGSNTY 37
||||| ||||| ||||| ||||| ||||| |||||
Db 40 NTATCATQRLANFLVRSSNNLGPVLPPTNVGSNTY 74
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RESULT 2
IAPP RAT
ID IAPP RAT STANDARD; PRT; 93 AA.
AC P12969;
DT 01-OCT-1989 (Rel. 12, Created)
DT 01-OCT-1989 (Rel. 12, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Islet amyloid polypeptide precursor (Diabetes-associated peptide)
DE (DAP) (Amylin).
GN Name=Iapp;
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=893145542; PubMed=2668946;
RA Nishi M., Chan S.J., Nagamatsu S., Bell G.I., Steiner D.F.;
RT "Conservation of the sequence of islet amyloid polypeptide in five
RL mammals is consistent with its putative role as an islet hormone."
RN [2]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=89240689; PubMed=2654937;
RA Leffert J.D., Newgard C.B., Okamoto H., Milburn J.L., Luskey K.L.;
RT "Rat amylin: cloning and tissue-specific expression in pancreatic
RL islets."
RN [3]
RP Proc. Natl. Acad. Sci. U.S.A. 86:5738-5742 (1989).
RN [4]
RP NUCLEOTIDE SEQUENCE.
RX STRAIN-WAP; TISSUE=Liver;
RA MEDLINE=91027936; PubMed=2223885; DOI=10.1016/0167-4781(90)90210-S;
RA van Mansfeld A.D.M., Mosseman S., Hoepfner J.W.M., Zandberg J.,
RA van Teeffelen H.A.M., Baas P.D., Lips C.J.M., Jansz H.S.;
RT "Islet amyloid polypeptide: structure and upstream sequences of the
RL IAPP gene in rat and man."
RN [5]
RP Biochim. Biophys. Acta 1087:235-240 (1990).
RN [6]
RP PROTEIN SEQUENCE OF 38-74.
RX MEDLINE=90026410; PubMed=2679555;
RA Asai J., Nakazato M., Kangawa K., Matsukura S., Matsuo H.;
RT "Isolation and sequence determination of rat islet amyloid
RL polypeptide."
RN [7]
RP Biochem. Biophys. Res. Commun. 164:400-405 (1989).
RN [8]
RP PROTEIN SEQUENCE OF 38-74.
RX MEDLINE=90290528; PubMed=2357234;
RA Asai J., Nakazato M., Miyazato M., Kangawa K., Matsuo H.,
RA Matsukura S.;
RT "Regional distribution and molecular forms of rat islet amyloid
RL polypeptide."
RN [9]
RP Biochem. Biophys. Res. Commun. 169:788-795 (1990).
RN [10]
RP NUCLEOTIDE SEQUENCE OF 38-74.
RX MEDLINE=89325677; PubMed=2666169; DOI=10.1016/0014-5793(89)91467-X;
RA Besholtz C., Christmansson L., Engstroem U., Korsman F., Svensson V.,
RA Johnson K.H., Westermark P.;
"Sequence divergence in a specific region of islet amyloid polypeptide
(IAPP) explains differences in islet amyloid formation between
species."
FEBS Lett. 251:261-264 (1989).
-1- FUNCTION: Selectively inhibits insulin-stimulated glucose
utilization and glycogen deposition in muscle, while not affecting
adipocyte glucose metabolism.
-1- SUBCELLULAR LOCATION: Secreted.
-1- TISSUE SPECIFICITY: Abundant in the islets of Langerhans but is
not present in the brain or seven other tissues examined.
-1- SIMILARITY: Belongs to the calcitonin family.
This Swiss-Prot entry is copyright. It is produced through a collaboration
between the Swiss Institute of Bioinformatics and the EMBL outstation -
the European Bioinformatics Institute. There are no restrictions on its
use as long as its content is in no way modified and this statement is not
removed.
EMBL; M25390; AAA41359.1; -; mRNA.
EMBL; J04544; AAA40730.1; -; mRNA.
EMBL; X52820; CAA37003.1; -; Genomic DNA.
EMBL; X52821; CAA37003.1; JOINED; Genomic DNA.
PIR; S13566; TCHTIA.
Ensembl; ENSRNOC0000012417; Rattus norvegicus.
RGD; 2854; Iapp.
DR InterPro; IPR000443; Amylin.
DR InterPro; IPR001693; Calcitonin-like.
DR InterPro; IPR002163; Calcitonin B.
DR Pfam; PF00214; Calc. CGRP IAPP; I.
DR PRINTS; PR00817; CALCITONINB.
DR PRINTS; PR00818; ISLETAMYLOID.
DR SMART; SM00113; CALCITONIN; 1.
DR PROSITE; PS00258; CALCITONIN; 1.
KW Amidation; Amyloid; Cleavage on pair of basic residues;
KW Direct protein sequencing; Hormone; Signal.
FT SIGNAL 1 23 Potential.
FT PROPEP 24 35 Islet amyloid polypeptide.
FT PEPTIDE 38 74
FT PROPEP 78 93 Tyrosine amide (G-75 provides amide
FT MOD_RES 74 74 group).
FT DISULFID 39 44 By similarity.
SQ SEQUENCE 93 AA; 10015 MW; 5A76C92E624DA962 CRC64;
Query Match 83.5%; Score 116; DB 1; Length 93;
Best Local Similarity 68.6%; Pred. No. 1.7e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
Qy 3 NTATXATQRLXNFXLXXXXXGXPLPXTXVGSNTY 37
||||| ||||| ||||| ||||| ||||| |||||
Db 40 NTATCATQRLANFLVRSSNNLGPVLPPTNVGSNTY 74
-----
RESULT 3
IAPP OCTDE
ID IAPP OCTDE STANDARD; PRT; 91 AA.
AC P22889;
DT 01-AUG-1991 (Rel. 19, Created)
DT 01-AUG-1991 (Rel. 19, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Islet amyloid polypeptide precursor (Amylin).
GN Name=IAPP;
OS Octodon degus (Degu).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
OC Hystricognathi; Octodontidae; Octodon.
OX NCBI_TaxID=10160;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=91155952; PubMed=2293024;
RA Nishi M., Steiner D.F.;
RT "Cloning of complementary DNAs encoding islet amyloid polypeptide,
insulin, and glucagon precursors from a New World rodent, the degu,
```

RT Octodon degus."; 4:1192-1198(1990).
RL Mol. Endocrinol.
CC -!- FUNCTION: Selectively inhibits insulin-stimulated glucose
CC utilization and glycogen deposition in muscle, while not affecting
CC adipocyte glucose metabolism.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the calcitonin family.
CC
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CC use as long as its content is in no way modified and this statement is not
CC removed.
CC
CC EMBL; M57669; AAA04589.1; -, mRNA.
DR PIR; A36118; A36118.
DR InterPro; IPR000443; Amylin.
DR InterPro; IPR001693; Calcitonin-like.
DR InterPro; IPR002163; Calcitonin.B.
DR Pfam; PF00214; Calc_CGRP_IAPP; 1.
DR PRINTS; PR00817; CALCITONINB.
DR PRINTS; PR00818; ISLETAMYLOID.
DR SMART; SM00113; CALCITONIN; 1.
DR PROSITE; PS00258; CALCITONIN; 1.
KW Amidation; Amyloid; Cleavage on pair of basic residues; Hormone;
KW Signal.
FT SIGNAL 1 22 Potential.
FT PROPEP 23 34
FT PEPTIDE 37 73 Islet amyloid polypeptide.
FT PROPEP 77 91
FT MOD_RES 73 73 Tyrosine amide (G-74 provides amide
FT group).
FT DISULFID 38 43 By similarity.
FT SEQUENCE 91 AA; 9925 MW; 42AB31AE1CE9EA99 CRC64;
Query Match 78.4%; Score 109; DB 1; Length 91;
Best Local Similarity 65.7%; Pred. No. 3.9e-13;
Matches 23; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
Qy 3 NTATXATQRLNFKLXXXXXNKGXPLPTXVGSNTY 37
Db 39 NTATCATQRLTNFLVRSHNLGAALPPTKVGSTY 73
RESULT 4
ID IAPP_CRIGR STANDARD; PRT; 37 AA.
AC P19890;
DT 01-FEB-1991 (Rel. 17, Created)
DT 01-FEB-1991 (Rel. 17, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Islet amyloid polypeptide (Amylin).
GN Name=IAPP;
OS Cricetus griseus (Chinese hamster).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridea; Cricetidae; Cricetinae; Cricetulus.
OX NCBI_TaxID=10029;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=89325677; PubMed=2666169; DOI=10.1016/0014-5793(89)81467-X;
RA Betsholtz C., Christmansson L., Engstrom U., Rorsman F., Svensson V.,
RA Johnson K.H., Westermark P.;
RT "Sequence divergence in a specific region of islet amyloid polypeptide
RT (IAPP) explains differences in islet amyloid formation between
RT species";
RL FEMS Lett. 251:261-264 (1989).
CC -!- FUNCTION: Selectively inhibits insulin-stimulated glucose
CC utilization and glycogen deposition in muscle, while not affecting
CC adipocyte glucose metabolism.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the calcitonin family.
CC

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CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.
CC
CC PIR; S05037; S05037.
DR InterPro; IPR000443; Amylin.
DR InterPro; IPR001693; Calcitonin-like.
DR InterPro; IPR002163; Calcitonin.B.
DR Pfam; PF00214; Calc_CGRP_IAPP; 1.
DR PRINTS; PR00817; CALCITONINB.
DR PRINTS; PR00818; ISLETAMYLOID.
DR SMART; SM00113; CALCITONIN; 1.
DR PROSITE; PS00258; CALCITONIN; 1.
KW Amidation; Amyloid; Hormone.
FT MOD_RES 37 37 Tyrosine amide.
FT DISULFID 2 7 By similarity.
FT SEQUENCE 37 AA; 3921 MW; FE433D9905EBP82E CRC64;
Query Match 77.0%; Score 107; DB 1; Length 37;
Best Local Similarity 65.7%; Pred. No. 3.5e-13;
Matches 23; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
Qy 3 NTATXATQRLNFKLXXXXXNKGXPLPTXVGSNTY 37
Db 3 NTATCATQRLANFLVHSHNLGPVLPTNVGSNTY 37
RESULT 5
ID IAPP_MESAU STANDARD; PRT; 92 AA.
AC P23442;
DT 01-NOV-1991 (Rel. 20, Created)
DT 01-NOV-1991 (Rel. 20, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Islet amyloid polypeptide precursor (Amylin).
GN Name=IAPP;
OS Mesocricetus auratus (Golden hamster).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridea; Cricetidae; Cricetinae; Mesocricetus.
OX NCBI_TaxID=10036;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=91067499; PubMed=2251153;
RA Nishi M., Bell G.I., Steiner D.F.;
RT "Sequence of a cDNA encoding Syrian hamster islet amyloid polypeptide
RT precursor";
RL Nucleic Acids Res. 18:6726-6726(1990).
CC -!- FUNCTION: Selectively inhibits insulin-stimulated glucose
CC utilization and glycogen deposition in muscle, while not affecting
CC adipocyte glucose metabolism.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the calcitonin family.
CC
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CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.
CC
CC EMBL; X56067; CAA39545.1; -, mRNA.
DR PIR; S13116; S13116.
DR InterPro; IPR000443; Amylin.
DR InterPro; IPR001693; Calcitonin-like.
DR InterPro; IPR002163; Calcitonin.B.
DR Pfam; PF00214; Calc_CGRP_IAPP; 1.
DR PRINTS; PR00817; CALCITONINB.
DR PRINTS; PR00818; ISLETAMYLOID.
DR SMART; SM00113; CALCITONIN; 1.
DR PROSITE; PS00258; CALCITONIN; 1.
KW Amidation; Amyloid; Cleavage on pair of basic residues; Hormone;
KW

KW Signal. 1 22 Potential.
 FT PROPEP 23 34 Islet amyloid polypeptide.
 FT PEPTIDE 37 73
 FT PROPEP 77 92 Tyrosine amide (G-74 provides amide
 FT MOD_RES 73 73 group).
 FT DISULFID 38 43 By similarity.
 FT SEQUENCE 92 AA; 9899 MW; 6D2F7359C4A1D029 CRC64;
 Query Match 77.0%; Score 107; DB 1; Length 92;
 Best Local Similarity 65.7%; Pred. No. 9.9e-13;
 Matches 23; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
 Qy 3 NTATXATQRLNFXLXXXXXNGPLPXTXVGSNTY 37
 ||||| ||||| ||||| ||||| ||||| |||||
 Db 39 NTATCATQRLANFLVHNSNNLGPVLSPTNVGSNTY 73
 RESULT 6
 ID_IAPP_HUMAN STANDARD; PRT; 89 AA.
 AC P10937; Q14598;
 DT 01-JUL-1989 (Rel. 11, Created)
 DT 01-JUL-1989 (Rel. 11, Last sequence update)
 DT 10-MAY-2005 (Rel. 47, Last annotation update)
 DE Islet amyloid polypeptide precursor (Diabetes-associated peptide)
 DE (DAP) (Amylin) (Insulinoma amyloid peptide).
 GN Name=IAPP;
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
 OC Homo.
 OC NCBI_TaxID=9606;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RX MEDLINE=89211434; PubMed=2651160; DOI=10.1016/0014-5793(89)81260-8;
 RA Mosselman S., Hoepfner J.W.M., Lips C.J.M., Jansz H.S.;
 RT "The complete islet amyloid polypeptide precursor is encoded by two
 RT exons";
 RL FEBS Lett. 247:154-158 (1989).
 RN [2]
 RP NUCLEOTIDE SEQUENCE.
 RX MEDLINE=90114181; PubMed=2608057;
 RA Nishi M., Sanke T., Seino S., Eddy R.L., Fan Y.-S., Byers M.G.,
 RA Shows T.B., Bell G.I., Steiner D.F.;
 RT "Human islet amyloid polypeptide gene: complete nucleotide sequence,
 RT chromosomal localization, and evolutionary history";
 RL Mol. Endocrinol. 3:1775-1781 (1989).
 RN [3]
 RP NUCLEOTIDE SEQUENCE.
 RX MEDLINE=89034238; PubMed=3053705;
 RA Sanke T., Bell G.I., Sample C., Rubenstein A.H., Steiner D.F.;
 RT "An islet amyloid peptide is derived from an 89-amino acid precursor
 RT by proteolytic processing";
 RL J. Biol. Chem. 263:17243-17246 (1988).
 RN [4]
 RP NUCLEOTIDE SEQUENCE.
 RX MEDLINE=90303394; PubMed=2365085; DOI=10.1016/0014-5793(90)80314-9;
 RA Christmansson L., Korsman F., Stenman G., Hoepfner J.W.M., Zandberg J.,
 RA "The human islet amyloid polypeptide (IAPP) gene. Organization,
 RT chromosomal localization and functional identification of a promoter
 RT region";
 RL FEBS Lett. 267:160-166 (1990).
 RN [5]
 RP NUCLEOTIDE SEQUENCE.
 RX MEDLINE=91027936; PubMed=2223885; DOI=10.1016/0167-4781(90)90210-S;
 RA van Mansfeld A.D.M., Mosselman S., Hoepfner J.W.M., Zandberg J.,
 RA van Teffelen H.A.A.M., Baas P.D., Lips C.J.M., Jansz H.S.;
 RT "Islet amyloid polypeptide: structure and upstream sequences of the
 RT IAPP gene in rat and man";
 RL Biochim. Biophys. Acta 1087:235-240 (1990).
 RN [6]

RP NUCLEOTIDE SEQUENCE.
 RX MEDLINE=93129228; PubMed=1282806;
 RA Hoepfner J.W.M., Oosterwijk C., Visser-Vernooij H.J., Lips C.J.M.,
 RA Jansz H.S.;
 RT "Characterization of the human islet amyloid polypeptide/amylin gene
 RT transcripts: identification of a new polyadenylation site";
 RL Biochem. Biophys. Res. Commun. 189:1569-1577 (1992).
 RN [7]
 RP NUCLEOTIDE SEQUENCE OF 28-89.
 RX MEDLINE=89031237; PubMed=3181427; DOI=10.1016/0014-5793(88)80922-0;
 RA Mosselman S., Hoepfner J.W.M., Zandberg J., van Mansfeld A.D.M.,
 RA Geurts van Kessel A.H.M., Lips C.J.M., Jansz H.S.;
 RT "Islet amyloid polypeptide: identification and chromosomal
 RT localization of the human gene";
 RL FEBS Lett. 239:227-232 (1988).
 RN [8]
 RP PROTEIN SEQUENCE OF 34-52.
 RX MEDLINE=87048863; PubMed=3535798;
 RA Westermarck P., Wernstedt C., Wilander E., Sletten K.;
 RT "A novel peptide in the calcitonin gene related peptide family as an
 RT amyloid fibril protein in the endocrine pancreas";
 RL Biochem. Biophys. Res. Commun. 140:827-831 (1986).
 RN [9]
 RP PROTEIN SEQUENCE OF 34-70.
 RX MEDLINE=87231921; PubMed=3035556;
 RA Westermarck P., Wernstedt C., Wilander E., Hayden D.W., O'Brien T.D.,
 RA Johnson K.H.;
 RT "Amyloid fibrils in human insulinoma and islets of Langerhans of the
 RT diabetic cat are derived from a neuro-peptide-like protein also present
 RT in normal islet cells";
 RL Proc. Natl. Acad. Sci. U.S.A. 84:3881-3885 (1987).
 RN [10]
 RP PROTEIN SEQUENCE OF 30-89.
 RX MEDLINE=9009324; PubMed=2690069;
 RA Roberts A.N., Leighton B., Todd J.A., Cockburn D., Schofield P.N.,
 RA Surton R., Holt S., Boyd Y., Day A.J., Foot E.A., Willis A.C.,
 RA Reid K.B.M., Cooper G.J.S.;
 RT "Molecular and functional characterization of amylin, a peptide
 RT associated with type 2 diabetes mellitus";
 RL Proc. Natl. Acad. Sci. U.S.A. 86:9662-9666 (1989).
 RN [11]
 RP STRUCTURE BY NMR OF IAPP.
 RX MEDLINE=91248117; PubMed=2039456;
 RA Hubbard J.A.M., Martin S.R., Chaplin L.C., Bose C., Kelly S.M.,
 RA Price N.C.;
 RT "Solution structures of calcitonin-gene-related-peptide analogues of
 RT calcitonin-gene-related peptide and amylin";
 RL Biochem. J. 275:785-788 (1991).
 RN [12]
 RP VARIANT GLY-53.
 RX MEDLINE=96368727; PubMed=8772735;
 RA Sakagashira S., Sanke T., Hanabusa T., Shimomura H., Ohagi S.,
 RA Kumagaye K.Y., Nakajima K., Nanjo K.;
 RT "Missense mutation of amylin gene (S20G) in Japanese NIDDM patients";
 RL Diabetes 45:1279-1281 (1996).
 RN [13]
 RP VARIANT GLY-53.
 RX MEDLINE=99010531; PubMed=9794116; DOI=10.1007/s001250051060;
 RA Chuang L.M., Lee K.C., Huang C.N., Wu H.P., Tai T.Y., Lin B.J.;
 RT "Role of S20G mutation of amylin gene in insulin secretion, insulin
 RT sensitivity, and type II diabetes mellitus in Taiwanese patients";
 RL Diabetologia 41:1250-1251 (1998).
 CC -1- FUNCTION: Selectively inhibits insulin-stimulated glucose
 CC utilization and glycogen deposition in muscle, while not affecting
 CC adipocyte glucose metabolism.
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- DISEASE: IAPP is the peptide subunit of amyloid found in
 CC pancreatic islets of type 2 diabetic patients and in insulinomas.
 CC -1- SIMILARITY: Belongs to the calcitonin family.
 CC
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CC -----
CC EMBL; M27503; AAA35524.1; -; Genomic_DNA.
CC EMBL; X14904; CAA33032.1; -; mRNA.
CC EMBL; X14905; CAA33033.1; -; mRNA.
CC EMBL; X14902; CAA33031.1; -; Genomic_DNA.
CC EMBL; X14903; CAB57804.1; -; Genomic_DNA.
CC EMBL; X13859; CAB57803.1; -; Genomic_DNA.
CC EMBL; J04422; AAA52281.1; -; mRNA.
CC EMBL; M26650; AAA51728.1; -; Genomic_DNA.
CC EMBL; M26650; AAA35983.1; -; Genomic_DNA.
CC EMBL; X52818; CAA37002.1; -; Genomic_DNA.
CC EMBL; X52819; CAA37002.1; JOINED; Genomic_DNA.
CC EMBL; X56030; CAA39504.1; -; Genomic_DNA.
CC EMBL; X56634; CAA39504.1; JOINED; Genomic_DNA.
CC EMBL; M68830; CAA48724.1; -; Genomic_DNA.
CC PIR; S04016; TCHUA.
CC Ensembl; ENSG00000121351; Homo sapiens.
CC HGNC; HGNC:5329; IAPP.

CC MIM; 147940; -.
CC GO; GO:0005625; C:soluble fraction; TAS.
CC GO; GO:0005102; F:receptor binding; TAS.
CC GO; GO:0006915; P:apoptosis; TAS.
CC GO; GO:0007267; P:cell-cell signaling; TAS.
CC GO; GO:0007165; P:signal transduction; TAS.

CC InterPro; IPR000443; Amylin.
CC InterPro; IPR001693; Calcitonin-like.
CC InterPro; IPR002163; Calcitonin B.
CC Pfam; PF00214; Calc CGRP IAPP; I.
CC PRINTS; PR00817; CalcITONINB.
CC PRINTS; PR00818; ISLETAMYLOID.
CC SMART; SM00113; CALCITONIN; I.
CC PROSITE; PS00258; Calcitonin; I.
CC Amidaation; Amyloid; Cleavage on pair of basic residues;
CC Direct protein sequencing; Hormone; Polymorphism; Signal.

FT SIGNAL 1 22 Potential.
FT PROPEP 23 31 Islet amyloid polypeptide.
FT PEPTIDE 34 70 Tyrosine amide (G-71 provides amide
FT PROPEP 74 89 group).
FT MOD_RES 70 70 Tyrosine amide (G-71 provides amide
FT DISULFID 35 40 By similarity.
FT VARIANT 53 53 S -> G (in dbSNP:1800203).
FT CONFLICT 53 53 /FTId=VAR_012080.
FT CONFLICT 53 53 S -> C (in Ref. 4; CAA39504).
SQ SEQUENCE 89 AA; 9806 MW; AA8B1F7FD9FCB4BD CRC64;

Query Match 73.4%; Score 102; DB 1; Length 89;
Best Local Similarity 62.9%; Pred. No. 9.2e-12;
Matches 22; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 3 NTATXATQRLKNFLXXXXXNKPXLPXTXVGSNTY 37
|||||
Db 36 NTATCATQRLANFLVHSSNNPFGAILSTSTVGSNTY 70

RESULT 7
IAPP CANFA
ID IAPP CANFA STANDARD; PRT; 89 AA.
AC P17716;
DT 01-AUG-1990 (Rel. 15, Created)
DT 01-FEB-1994 (Rel. 28, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Islet amyloid polypeptide precursor (Amylin).
GN Name=IAPP;
OS Canis familiaris (Dog).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Laurasiatheria; Carnivora; Fissipedia; Canidae;
OC Canis.
OX NCBI_TaxID=9615;
RN (1)
RP NUCLEOTIDE SEQUENCE.

RX MEDLINE=92182022; PubMed=1543754; DOI=10.1016/0167-4781(92)90470-K;
RA Albrandt K., Mull E., Cooper G.J.S., Johnson M.J.;
RT "Nucleotide sequence of a cDNA for canine amylin.";
RL Biochim. Biophys. Acta 1130:97-99(1992).

CC [2]

CC NUCLEOTIDE SEQUENCE OF 43-68.

CC MEDLINE=90290487; PubMed=2192709;

CC Jordan K., Murtaugh M.P., O'Brien T.D., Westermarck P., Betsholtz C.,

CC Johnson K.H.;

CC "Canine IAPP cDNA sequence provides important clues regarding

CC diabetogenesis and amyloidogenesis in type 2 diabetes.";

CC Biochem. Biophys. Res. Commun. 169:502-508(1990).

CC -!- FUNCTION: Selectively inhibits insulin-stimulated glucose

CC utilization and glycogen deposition in muscle, while not affecting

CC adipocyte glucose metabolism.

CC -!- SUBCELLULAR LOCATION: Secreted.

CC -!- SIMILARITY: Belongs to the calcitonin family.

CC -----

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CC removed.

CC EMBL; X59998; CAA42616.1; -; mRNA.

CC EMBL; M37720; AAA30849.1; -; mRNA.

CC PIR; S22344; S22344.

CC Ensembl; ENSCAF000000012365; Canis familiaris.

CC InterPro; IPR000443; Amylin.

CC InterPro; IPR001693; Calcitonin-like.

CC InterPro; IPR002163; Calcitonin B.

CC Pfam; PF00214; Calc CGRP IAPP; I.

CC PRINTS; PR00817; CALCITONINB.

CC PRINTS; PR00818; ISLETAMYLOID.

CC SMART; SM00113; CALCITONIN; I.

CC PROSITE; PS00258; CALCITONIN; I.

CC Amidaation; Amyloid; Cleavage on pair of basic residues; Hormone;

CC Signal.

FT SIGNAL 1 22 Potential.

FT PROPEP 23 31 Islet amyloid polypeptide.

FT PEPTIDE 35 70 Tyrosine amide (G-71 provides amide

FT PROPEP 74 89 group).

FT MOD_RES 70 70 By similarity.

FT DISULFID 35 40 S -> T (in Ref. 2).

FT CONFLICT 67 67

SQ SEQUENCE 89 AA; 9800 MW; 9BF757E1C1493EEF CRC64;

Query Match 71.9%; Score 100; DB 1; Length 89;
Best Local Similarity 62.9%; Pred. No. 2.3e-11;
Matches 22; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 3 NTATXATQRLKNFLXXXXXNKPXLPXTXVGSNTY 37
|||||
Db 36 NTATCATQRLANFLVRTSNLNGAILSPSTNVGSNTY 70

RESULT 8
IAPP FELCA
ID IAPP FELCA STANDARD; PRT; 89 AA.
AC P12967;
DT 01-OCT-1989 (Rel. 12, Created)
DT 01-OCT-1989 (Rel. 12, Last sequence update)
DT 13-SEP-2005 (Rel. 48, Last annotation update)
DE Islet amyloid polypeptide precursor (Amylin).
GN Name=IAPP;
OS Felis silvestris catus (Cat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Laurasiatheria; Carnivora; Fissipedia; Felidae;
OC Felinae; Felis.
OX NCBI_TaxID=9685;
RN (1)
RP NUCLEOTIDE SEQUENCE.

RX MEDLINE=893454542; PubMed=2668946;
 RA Nishi M., Chan S.J., Nagamatsu S., Bell G.I., Steiner D.P.;
 RT "Conservation of the sequence of islet amyloid polypeptide in five
 RT mammals is consistent with its putative role as an islet hormone.";
 RL Proc. Natl. Acad. Sci. U.S.A. 86:5738-5742(1989).
 RN [2]
 RP PROTEIN SEQUENCE OF 34-50.
 RX MEDLINE=87231921; PubMed=3035556;
 RA Westermarck P., Wernstedt C., Wilander E., Hayden D.W., O'Brien T.D.,
 RA Johnson K.H.;
 RA "Amyloid fibrils in human insulinoma and islets of Langerhans of the
 RT diabetic cat are derived from a neuropeptide-like protein also present
 RT in normal islet cells.";
 RL Proc. Natl. Acad. Sci. U.S.A. 84:3881-3885(1987).
 RN [3]
 RP NUCLEOTIDE SEQUENCE OF 34-70.
 RX MEDLINE=91006862; PubMed=2210054;
 RA Besholtz C., Christman L., Engstrom U., Rorsman F., Jordan K.,
 RA O'Brien T.D., Murtaugh M., Johnson K.H., Westermarck P.;
 RT "Structure of cat islet amyloid polypeptide and identification of
 RT amino acid residues of potential significance for islet amyloid
 RT formation.";
 RL Diabetes 39:118-122(1990).
 CC -!- FUNCTION: Selectively inhibits insulin-stimulated glucose
 CC utilization and glycogen deposition in muscle, while not affecting
 CC adipocyte glucose metabolism.
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- SIMILARITY: Belongs to the calcitonin family.
 CC -----
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 CC use as long as its content is in no way modified and this statement is not
 CC removed.
 CC -----
 CC EMBL; M25388; AAA30813.1; -; mRNA.
 DR PIR; A33542; A33542.
 DR InterPro; IPR000443; Amylin.
 DR InterPro; IPR001693; Calcitonin-like.
 DR InterPro; IPR002163; Calcitonin B.
 DR Pfam; PF00214; Calc_CGRP_IAPP; 1.
 DR PRINTS; PR00817; CALCITONINB.
 DR PRINTS; PR00818; ISLETAMYLOID.
 DR SMART; SM00113; CALCITONIN; 1.
 DR PROSITE; PS00258; CALCITONIN; 1.
 DR AMIDATION; Amyloid; Cleavage on pair of basic residues; Hormone; Signal.
 KW SIGNAL 1 22 Potential.
 FT PROPEP 23 31 Islet amyloid polypeptide.
 FT PEPTIDE 34 70
 FT PROPEP 74 89
 FT MOD_RES 70 70 Tyrosine amide (G-71 provides amide
 FT group).
 FT DISULFID 35 40 By similarity.
 FT SEQUENCE 89 AA; 9832 MW; 0834D783DEAD72A8 CRC64;
 Query Match 71.9%; Score 100; DB 1; Length 89;
 Best Local Similarity 62.9%; Pred. No. 2.3e-11; Indels 0; Gaps 0;
 Matches 22; Conservative 0; Mismatches 13;
 Qy 3 NTATXATQRLXNFXLXXXXXKXGXPXLPXTXVGSNTY 37
 Db 36 NTATCATQRLANFLIRSSNNLGAAILSPNTVGSNTY 70
 RESULT 9
 IAPP CAVPO STANDARD; PRT; 92 AA.
 AC P12956;
 DT 01-OCT-1989 (Rel. 12, Created)
 DT 01-OCT-1989 (Rel. 12, Last sequence update)
 DT 10-MAY-2005 (Rel. 47, Last annotation update)
 DE Islet amyloid polypeptide precursor (Amylin).

GN Name=IAPP;
 OS Cavia porcellus (Guinea pig).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
 OC Hystricognathi; Caviidae; Cavia.
 OK NCBI_TaxID=10141;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RX MEDLINE=893454542; PubMed=2668946;
 RA Nishi M., Chan S.J., Nagamatsu S., Bell G.I., Steiner D.P.;
 RA "Conservation of the sequence of islet amyloid polypeptide in five
 RT mammals is consistent with its putative role as an islet hormone.";
 RL Proc. Natl. Acad. Sci. U.S.A. 86:5738-5742(1989).
 CC -!- FUNCTION: Selectively inhibits insulin-stimulated glucose
 CC utilization and glycogen deposition in muscle, while not affecting
 CC adipocyte glucose metabolism.
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- SIMILARITY: Belongs to the calcitonin family.
 CC -----
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 CC the European Bioinformatics Institute. There are no restrictions on its
 CC use as long as its content is in no way modified and this statement is not
 CC removed.
 CC -----
 CC EMBL; M25387; AAA37040.1; -; mRNA.
 DR PIR; D33542; D33542.
 DR InterPro; IPR000443; Amylin.
 DR InterPro; IPR001693; Calcitonin-like.
 DR InterPro; IPR002163; Calcitonin B.
 DR Pfam; PF00214; Calc_CGRP_IAPP; 1.
 DR PRINTS; PR00817; CALCITONINB.
 DR PRINTS; PR00818; ISLETAMYLOID.
 DR SMART; SM00113; CALCITONIN; 1.
 DR PROSITE; PS00258; CALCITONIN; 1.
 DR AMIDATION; Amyloid; Cleavage on pair of basic residues; Hormone; Signal.
 KW SIGNAL 1 22 Potential.
 FT PROPEP 23 34 Islet amyloid polypeptide.
 FT PEPTIDE 37 73
 FT PROPEP 77 92
 FT MOD_RES 73 73 Tyrosine amide (G-74 provides amide
 FT group).
 FT DISULFID 38 43 By similarity.
 FT SEQUENCE 92 AA; 9989 MW; 67F3629014BF39C CRC64;
 Query Match 71.2%; Score 99; DB 1; Length 92;
 Best Local Similarity 62.9%; Pred. No. 3.7e-11; Indels 0; Gaps 0;
 Matches 22; Conservative 0; Mismatches 13;
 Qy 3 NTATXATQRLXNFXLXXXXXKXGXPXLPXTXVGSNTY 37
 Db 39 NTATCATQRLTNFLVRSSNHLGAALLPTDVGNTY 73
 RESULT 10
 Q90743 CHICK
 ID Q90743 CHICK PRELIMINARY; PRT; 135 AA.
 AC Q90743;
 DT 01-NOV-1996 (TrEMBLrel. 01, Created)
 DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
 DE Amyloid protein precursor.
 OS Gallus gallus (Chicken).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
 OK NCBI_TaxID=9031;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RC STRAIN=Leghorn; TISSUE=Pancreas;
 RX MEDLINE=95021303; PubMed=7935487; DOI=10.1210/me.8.6.713;
 RA Fan L., Westermarck G., Chan S.J., Steiner D.F.;

RT "Altered gene structure and tissue expression of islet amyloid polypeptide in the chicken.";

RL Mol. Endocrinol. 8:713-721(1994).

DR EMBL; L16955; AAA67704.1; -; mRNA.

DR PIR; A56855; A56855.

DR Ensembl; ENSGALG0000013168; Gallus gallus.

DR GO; GO:0005576; C:extracellular region; IEA.

DR GO; GO:0005524; F:ATP binding; IEA.

DR GO; GO:0005179; F:hormone activity; IEA.

DR GO; GO:0004672; P:protein kinase activity; IEA.

DR GO; GO:0006468; P:protein amino acid phosphorylation; IEA.

DR InterPro; IPR001693; Calcitonin-like.

DR InterPro; IPR002163; Calcitonin_B.

DR InterPro; IPR000719; Prot_kinase.

DR Pfam; PF00214; Calc_CGRP_IAPP; 1.

DR PRINTS; PR00817; CALCITONINB.

DR PRINTS; PR00818; ISLETAMYL0ID.

DR PRODOM; PD000001; Prot_kinase; 1.

DR SMART; SM00113; CALCITONIN; 1.

DR PROSITE; PS00258; CALCITONIN; 1.

KW

Signal.

FT

CHAIN

23

135

MW;

14762

MW;

83DE323AC735159

CRC64;

SQ

SEQUENCE

135

AA;

14762

MW;

83DE323AC735159

CRC64;

Query Match

62.6%

Score 87;

DB 2;

Length 135;

Best Local Similarity

54.3%

Pred. No. 1.3e-08;

Matches 19;

Conservative 1;

Mismatches 15;

Indels 0;

Gaps 0;

Qy 3 NTATXATQRLXNLFXXXXXXXXXGPKLPXTXVGSNTY 37

Db 82 NTATCVTQRLADFLVRSSNIGAYSPINVGSNY 116

RESULT 11

Q9BEFO_ERIEU

PRELIMINARY;

PRT;

66 AA.

AC Q9BEFO;

DT 01-JUN-2001 (TrEMBLrel. 17, Created)

DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)

DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)

DE Islet amyloid polypeptide (Fragment).

GN Name=IAPP;

OS Erinaeus europaeus (Western European hedgehog).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Laurasiatheria; Insectivora; Erinaceidae;

OC Erinaceinae; Erinaceus.

OX NCBI_TaxID=9365;

RN [1]

RP NUCLEOTIDE SEQUENCE.

RA van Dijk M.A.M., de Jong W.W.;

RL Submitted (FEB-2001) to the EMBL/GenBank/DBJ databases.

RN [2]

RP NUCLEOTIDE SEQUENCE.

RA van Dijk M.A.;

RL Submitted (FEB-2000) to the EMBL/GenBank/DBJ databases.

DR EMBL; AJ286815; CAC28520.1; -; mRNA.

DR GO; GO:0005576; C:extracellular region; IEA.

DR GO; GO:0005179; F:hormone activity; IEA.

DR InterPro; IPR000443; Amylin.

DR InterPro; IPR001693; Calcitonin-like.

DR InterPro; IPR002163; Calcitonin_B.

DR Pfam; PF00214; Calc_CGRP_IAPP; 1.

DR PRINTS; PR00817; CALCITONINB.

DR PRINTS; PR00818; ISLETAMYL0ID.

DR SMART; SM00113; CALCITONIN; 1.

DR PROSITE; PS00258; CALCITONIN; UNKNOWN_1.

FT NON_TER 66

SQ SEQUENCE 66 AA; 7131 MW; 3F0001BB7099770D CRC64;

Query Match

56.1%

Score 78;

DB 2;

Length 66;

Best Local Similarity

58.1%

Pred. No. 3.4e-07;

Matches 18; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNLFXXXXXXXXXGPKLPXTXVG 33

Db 36 NTATCATQRLVNFILSRSSNIGAILSPDVG 66

RESULT 12

Q4TB97_TETNG

PRELIMINARY;

PRT;

51 AA.

AC Q4TB97;

DT 13-SEP-2005 (TrEMBLrel. 31, Created)

DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)

DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)

DE Chromosome undetermined SCAF7172, whole genome shotgun sequence. (Fragment).

DE ORFNames=GSTENG0003849001;

OS Tetraodon nigroviridis (Green puffer).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;

OC Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes;

OC Tetraodontidae; Tetraodontidae; Tetraodon.

OX NCBI_TaxID=99883;

RN [1]

RP NUCLEOTIDE SEQUENCE.

RA Jaillon O., Aury J.M., Brunet F., Petit J.L., Stange-Thomann N.,

RA Mauceli E., Bouneau L., Fischer C., Ozouf-Costaz C., Bernot A.,

RA Nicaud S., Jaffe D., Fisher S., Lutfalla G., Dossat C., Segurens B.,

RA Dasilva C., Salanoubat M., Levy M., Boudet N., Castellano S.,

RA Anthouard V., Jubin C., Castellani V., Katinka M., Vacherie B.,

RA Biemont C., Skalli Z., Cattolico L., Poulain J., De Bernardis V.,

RA Cruaud C., Duprat S., Brottier P., Coutanceau J.P., Gouzy J.,

RA Parra G., Lardier G., Chapple C., McKernan K.J., McEwan P., Bosak S.,

RA Kellis M., Volff J.N., Guigo R., Zody M.C., Mesirov J.,

RA Lindblad-Toh K., Birren B., Nusbaum C., Kahn D., Robinson-Rechavi M.,

RA Laudet V., Schachter V., Quetier F., Saurin W., Scarpelli C.,

RA Wincker P., Lander E.S., Weissbach J., Roest Crollius H.;

RT "Genome duplication in the teleost fish Tetraodon nigroviridis reveals

the early vertebrate proto-karyotype.";

RL Nature 431:946-957(2004).

RN [2]

RP NUCLEOTIDE SEQUENCE.

RG Genoscope; Whitehead

RL Submitted (FEB-2004) to the EMBL/GenBank/DBJ databases.

CC -!- CAUTION: The sequence shown here is derived from an

EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is

preliminary data.

DR EMBL; CAAB01007172; CAF89835.1; -; Genomic_DNA.

FT NON_TER 1

FT NON_TER 51

SQ SEQUENCE 51 AA; 5599 MW; 2AB836DCCCB4BBEF CRC64;

Query Match

51.8%

Score 72;

DB 2;

Length 51;

Best Local Similarity

48.6%

Pred. No. 3.9e-06;

Matches 17;

Conservative 1;

Mismatches 17;

Indels 0;

Gaps 0;

Qy 3 NTATXATQRLXNLFXXXXXXXXXGPKLPXTXVGSNTY 37

Db 10 NTATCVTQRLADFLVRSSNITGTVAPTNVGSATY 44

RESULT 13

IAPP_RABIT

STANDARD;

PRT;

67 AA.

AC Q97334; Q28741; Q9BED7;

DT 15-JUL-1998 (Rel. 36, Created)

DT 28-FEB-2003 (Rel. 41, Last sequence update)

DT 10-MAY-2005 (Rel. 47, Last annotation update)

DE Islet amyloid polypeptide precursor (Amylin) (Fragment).

GN Name=IAPP;

OS Oryctolagus cuniculus (Rabbit).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Euarchontoglires; Glires; Lagomorpha; Leporidae;

OC Oryctolagus.
OX NCBI_TaxID=9996;
RN (1)
RP NUCLEOTIDE SEQUENCE OF 1-66.
RA van Dijk M.A.M., de Jong W.W.;
RT "Indels indicate that rodents are monophyletic and lagomorphs are
RT their sister group.";
RL Submitted (FEB-2000) to the EMBL/GenBank/DBJ databases.
RN (2)
RP NUCLEOTIDE SEQUENCE OF 36-67.
RA Albrandt K., Sierzege M.E., Mull E., Brady E.M.G.;
RT "PCR amplification of amylin 3-34 from genomic DNA.";
RL Submitted (AUG-1996) to the EMBL/GenBank/DBJ databases.
RN (3)
RP NUCLEOTIDE SEQUENCE OF 42-64.
RA STRAIN=New Zealand white;
RX MEDLINE=93215963; PubMed=8462765; DOI=10.1007/BF00399947;
RA Christmann L., Betscholtz C., Leckstroem A., Engstroem U., Cortie C.,
RA Johnson K.H., Adrian T.E., Westermarck P.;
RT "Islet amyloid polypeptide in the rabbit and European hare: studies on
RT its relationship to amyloidogenesis.";
RL Diabetologia 36:183-188(1993).
CC -!- FUNCTION: Selectively inhibits insulin-stimulated glucose
CC utilization and glycogen deposition in muscle, while not affecting
CC adipocyte glucose metabolism.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the calcitonin family.
CC
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CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
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CC use as long as its content is in no way modified and this statement is not
CC removed.
CC
CC EMBL; AJ286814; CAC28529.1; -; mRNA.
CC EMBL; U62630; AAB05917.1; -; Genomic_DNA.
CC EMBL; S57804; AAB26084.1; -; mRNA.
CC PIR; I46934; I46934.
CC InterPro; IPR000443; Amylin.
CC InterPro; IPR001693; Calcitonin-like.
CC Pfam; PF00214; Calc_CGRP_IAPP; 1.
CC PRINTS; PR00818; ISETAMYL0ID.
CC SMART; SM00113; CALCITONIN; 1.
CC PROSITE; PS00258; CALCITONIN; PARTIAL.
CC Amyloid; Cleavage on pair of basic residues; Hormone; Signal.
FT SIGNAL 1 22 Potential.
FT PROPEP 23 31
FT PEPTIDE 35 >67 Islet amyloid polypeptide.
FT DISULFID 35 40 By similarity.
FT NON_TER 67 67
SQ SEQUENCE 67 AA; 7230 MW; BF5FEC2064F69646 CRC64;
Query Match 49.6%; Score 69; DB 1; Length 67;
Best Local Similarity 50.0%; Pred. No. 2e-05;
Matches 16; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
OY 3 NTATXATQRLXNFXLXXXXXNGPXPXTXVGS 34
DB 36 NTVTCATQRLANFLHSSNNGAIFSPSPVGS 67
RESULT 14
IAPP_PIG
ID IAPP_PIG STANDARD; PRT; 32 AA.
AC Q291J9;
DT 15-JUL-1998 (Rel. 36, Created)
DT 15-JUL-1998 (Rel. 36, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Islet amyloid polypeptide (Amylin) (Fragment).
GN Name=IAPP;
OS Sus scrofa (Pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Suina; Suidae;

Sus.
NCBI_TaxID=9823;
(1)
NUCLEOTIDE SEQUENCE.
Albrandt K., Sierzege M.E., Mull E., Brady E.M.G.;
"PCR amplification of amylin 3-34 from genomic DNA.";
Submitted (AUG-1996) to the EMBL/GenBank/DBJ databases.
-!- FUNCTION: Selectively inhibits insulin-stimulated glucose
utilization and glycogen deposition in muscle, while not affecting
adipocyte glucose metabolism.
-!- SUBCELLULAR LOCATION: Secreted.
-!- SIMILARITY: Belongs to the calcitonin family.
CC
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CC use as long as its content is in no way modified and this statement is not
CC removed.
CC
CC EMBL; U62628; AAB05919.1; -; Genomic_DNA.
CC InterPro; IPR000443; Amylin.
CC InterPro; IPR001693; Calcitonin-like.
CC Pfam; PF00214; Calc_CGRP_IAPP; 1.
CC PRINTS; PR00818; ISETAMYL0ID.
CC SMART; SM00113; CALCITONIN; 1.
CC PROSITE; PS00258; CALCITONIN; PARTIAL.
CC Amyloid; Hormone.
FT PEPTIDE <1 >32 Islet amyloid polypeptide.
FT NON_TER 1 1
FT NON_TER 32 32
SQ SEQUENCE 32 AA; 3466 MW; 7EB37E990BE555C8 CRC64;
Query Match 47.5%; Score 66; DB 1; Length 32;
Best Local Similarity 50.0%; Pred. No. 3.4e-05;
Matches 16; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
OY 3 NTATXATQRLXNFXLXXXXXNGPXPXTXVGS 34
DB 1 NMTATCATQRLANFLDRSRNLTGTFSPTKVGS 32
RESULT 15
IAPP_SAGOE
ID IAPP_SAGOE STANDARD; PRT; 32 AA.
AC Q28934;
DT 15-JUL-1998 (Rel. 36, Created)
DT 15-JUL-1998 (Rel. 36, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Islet amyloid polypeptide (Amylin) (Fragment).
GN Name=IAPP;
OS Saguinus oedipus (Cotton-top tamarin).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Platyrrhini;
OC Callitrichidae; Saguinus.
OX NCBI_TaxID=9490;
RN (1)
RP NUCLEOTIDE SEQUENCE.
RA Albrandt K., Sierzege M.E., Mull E., Brady E.M.G.;
RT "PCR amplification of amylin 3-34 from genomic DNA.";
RL Submitted (AUG-1996) to the EMBL/GenBank/DBJ databases.
CC -!- FUNCTION: Selectively inhibits insulin-stimulated glucose
CC utilization and glycogen deposition in muscle, while not affecting
CC adipocyte glucose metabolism.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the calcitonin family.
CC
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CC use as long as its content is in no way modified and this statement is not
CC removed.
CC
CC EMBL; U62627; AAB05918.1; -; Genomic_DNA.


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RESULT 18
Q6DGJ9 BRARE
ID Q6DGJ9 BRARE PRELIMINARY; PRT; 126 AA.
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE ZGC:92886.
GN ORFNames=zgc:92886;
OS Brachydanio rerio (Zebrafish) (Danio rerio).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
OC Cyprinidae; Danio.
OX NCBI_TaxID=7955;
RN NUCLEOTIDE SEQUENCE.
[1]
RP TISSUE=Brain;
RC MEDLINE=2238257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Vallalao D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Whiting M., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson G.G.,
RA Rodriguez A.C., Grouman J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smalish D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences."
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
[2]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Brain;
RA Strausberg R.;
RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC076343; AAH76343.1; -; mRNA.
DR ZFIN; ZDB-GENE-040718-173; zgc:92886.
DR GO; GO:0005576; C:extracellular region; IEA.
DR GO; GO:0005179; F:hormone activity; IEA.
DR InterPro; IPR000443; Amylin.
DR InterPro; IPR001693; Calcitonin-like.
DR InterPro; IPR002163; Calcitonin B.
DR Pfam; PF00214; Calc CGRP IAPP; I.
DR PRINTS; PR00817; CALCITONINB.
DR PRINTS; PR00818; ISLETAMYLOID.
DR SMART; SM00113; CALCITONIN; 1.
DR PROSITE; PS00258; CALCITONIN; 1.
SQ SEQUENCE 126 AA; 13957 MW; 9A9399E3683D7B16 CRC64;

Query Match 36.78; Score 51; DB 2; Length 126;
Best Local Similarity 37.14; Pred. No. 0.14;
Matches 13; Conservative 2; Mismatches 20; Indels 0; Gaps 0;

QY 3 NTATXATQRLXNFXLXXXXXNKGXPLXPTXVGSNTY 37
||||| |||||
DB 83 NTATCVTHRLADFLSRSGGIGSSKFVETNVGSQAF 117
||||| |||||

RESULT 19
IAPP_BOVIN
ID IAPP_BOVIN
AC Q28207; 1998 (Rel. 36, Created)
DT 15-JUL-1998 (Rel. 36, Last sequence update)

Query Match 36.0%; Score 50; DB 1; Length 32;
Best Local Similarity 41.9%; Pred. No. 0.048;
Matches 13; Conservative 1; Mismatches 17; Indels 0; Gaps 0;

QY 4 TATXATQRLXNFXLXXXXXNKGXPLXPTXVGS 34
||||| |||||
DB 2 TATCETQCLANFLAPSSNKLGAIFSPTKMGS 32
||||| |||||

RESULT 20
CALCR_RANRI
ID CALCR_RANRI STANDARD; PRT; 37 AA.
AC P31888;
DT 01-JUL-1993 (Rel. 26, Created)
DT 01-JUL-1993 (Rel. 26, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Calcitonin gene-related peptide (CGRP),
DE Rana ridibunda (Laughing frog) (Marsh frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Ranioidea; Rana;
OC Pelophylax.
OX NCBI_TaxID=8406;
RN NUCLEOTIDE SEQUENCE.
[1]
RP TISSUE=Brain, and Intestine;
RC MEDLINE=93324452; PubMed=8332553; DOI=10.1016/0196-9781(93)90148-A;
RA Conlon J.M., Tonon M.-C., Vaudry H.;
RT "Isolation and structural characterization of calcitonin gene-related
RT peptide from the brain and intestine of the frog, Rana ridibunda.";
RL Peptides 14:581-586(1993).
CC -!- FUNCTION: CGRP induces vasodilatation. It dilates a variety of
CC vessels including the coronary, cerebral and systemic vasculature.
CC Its abundance in the CNS also points toward a neurotransmitter or
CC neuromodulator role.
CC -!- SIMILARITY: Belongs to the calcitonin family.
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CC use as long as its content is in no way modified and this statement is not
CC removed.
CC -----
DR InterPro; IPR001693; Calcitonin-like.
DR InterPro; IPR002163; Calcitonin B.
DR Pfam; PF00214; Calc CGRP IAPP; I.
DR PRINTS; PR00817; CALCITONINB.
DR SMART; SM00113; CALCITONIN; 1.
DR PROSITE; PS00258; CALCITONIN; 1.
KW Amidation; Direct protein sequencing; Hormone.
FT MOD_RES 37 37 Phenylalanine amide.
FT DISULFID 32 7 By similarity.
SQ SEQUENCE 37 AA; 3887 MW; 0EFEE3AD2745EBDE CRC64;

Query Match 36.0%; Score 50; DB 1; Length 37;
Best Local Similarity 37.1%; Pred. No. 0.057;
Matches 13; Conservative 2; Mismatches 20; Indels 0; Gaps 0;

QY 3 NTATXATQRLXNFKLXXXXXNKGXPLPTXVGSNTY 37
    ||||| ||||| :|||
DB 3 NTATCVTHRLADFLSRSGMGAKNFPVPTNVGSKAF 37
    ||||| ||||| :|||

RESULT 21
P79814 ONCGO PRELIMINARY; PRT; 52 AA.
AC P79814
DT 01-MAY-1997 (TrEMBLrel. 03, Created)
DT 01-MAY-1997 (TrEMBLrel. 03, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Calcitonin gene-related peptide 4 (Fragment).
OS Oncorhynchus gorbuscha (Pink salmon) (Humpback salmon).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei;
OC Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.
OC NCBI_TaxID=8017;
RN NUCLEOTIDE SEQUENCE.
RP Cressent M.D.;
RX MEDLINE=97057244; PubMed=8901583; DOI=10.1073/pnas.93.22.12344;
RA Jansz H., Martial K., Zandberg J., Milhaud G., Benson A.A.,
RA Julienne A., Moukhtar M.S., Cressent M.;
RT "Identification of a new calcitonin gene in the salmon Oncorhynchus
RT gorbuscha.";
RL Proc. Natl. Acad. Sci. U.S.A. 93:12344-12348(1996).
RN NUCLEOTIDE SEQUENCE.
RA Cressent M.D.;
RL Submitted (SEP-1996) to the EMBL/GenBank/DBJ databases.
DR EMBL; U71287; AAB38533.1; -, mRNA.
DR GO; GO:0005576; C:extracellular region; IEA.
DR GO; GO:0005179; F:hormone activity; IEA.
DR InterPro; IPR001693; Calcitonin-like.
DR InterPro; IPR002163; Calcitonin B.
DR Pfam; PF00214; Calc CGRP IAPP; I.
DR PRINTS; PR00817; CALCITONINB.
DR SMART; SM00113; CALCITONIN; 1.
DR PROSITE; PS00258; CALCITONIN; 1.
FT CHAIN <1 4 N-terminal peptide.
FT CHAIN 7 43 calcitonin gene-related peptide 4.
FT CHAIN 49 52 carboxy terminal peptide.
FT NON_TER 1 1
SQ SEQUENCE 52 AA; 5700 MW; 3F4C471D2A682321 CRC64;

Query Match 35.3%; Score 49; DB 2; Length 52;
Best Local Similarity 34.3%; Pred. No. 0.13;
Matches 12; Conservative 3; Mismatches 20; Indels 0; Gaps 0;

QY 3 NTATXATQRLXNFKLXXXXXNKGXPLPTXVGSNTY 37
    ||||| ||||| :|||
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Db 9 NTATCVTHRLADFLSRSGMGNSNFPVPTNVGAKAF 43

RESULT 22
Q8QFT9_FUGRU PRELIMINARY; PRT; 126 AA.
AC Q8QFT9;
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Calcitonin gene related peptide.
GN Name=cgrp;
OS Fugu rubripes (Japanese pufferfish) (Takifugu rubripes).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
OC Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes;
OC Tetraodontidae; Tetraodontidae; Takifugu.
OC NCBI_TaxID=31033;
RN NUCLEOTIDE SEQUENCE.
RP Clark M.S.;
RA "Structure and expression of Fugu calcitonin gene.";
RL Submitted (MAR-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AJ309015; CAC81277.1; -, Genomic DNA.
DR Ensembl; SINFUG000004125998; Fugu rubripes.
DR GO; GO:0005576; C:extracellular region; IEA.
DR GO; GO:0005179; F:hormone activity; IEA.
DR InterPro; IPR000443; Amylin.
DR InterPro; IPR001693; Calcitonin-like.
DR InterPro; IPR002163; Calcitonin B.
DR Pfam; PF00214; Calc CGRP IAPP; I.
DR PRINTS; PR00817; CALCITONINB.
DR PRINTS; PR00818; ISLETAMYLOID.
DR SMART; SM00113; CALCITONIN; 1.
DR PROSITE; PS00258; CALCITONIN; 1.
FT CHAIN 81 117 calcitonin gene related peptide.
SQ SEQUENCE 126 AA; 13863 MW; 31CB14A01BF2CD57 CRC64;

Query Match 35.3%; Score 49; DB 2; Length 126;
Best Local Similarity 34.3%; Pred. No. 0.36;
Matches 12; Conservative 3; Mismatches 20; Indels 0; Gaps 0;

QY 3 NTATXATQRLXNFKLXXXXXNKGXPLPTXVGSNTY 37
    ||||| ||||| :|||
DB 83 NTATCVTHRLADFLSRSGMGNSNFPVPTNVGAKAF 117
    ||||| ||||| :|||

RESULT 23
Q4S167_TETNG PRELIMINARY; PRT; 184 AA.
AC Q4S167;
DT 13-SEP-2005 (TrEMBLrel. 31, Created)
DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
DE Chromosome 13 SCAF14769, whole genome shotgun sequence.
DE (Fragment).
DE ORFNames=GSTENG00025692001;
OS Tetraodon nigroviridis (Green puffer).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Neoteleostei;
OC Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes;
OC Tetraodontidae; Tetraodontidae; Tetraodon.
OC NCBI_TaxID=99883;
RN NUCLEOTIDE SEQUENCE.
RP Jallion O., Aury J.M., Brunet F., Petit J.L., Stange-Thomann N.,
RA Mauceli E., Bouneau L., Fischer C., Ozouf-Costaz C., Bernot A.,
RA Nicaud S., Jaffe D., Fisher S., Lutfalla G., Dossat C., Segurens B.,
RA Dasilva C., Salanoubat M., Levy M., Boudet N., Castellano S.,
RA Anchaoud V., Jubin C., Castellani V., Katinka M., Vacherie B.,
RA Biemont C., Skalli Z., Catolico L., Poulain J., De Berardinis V.,
RA Craud C., Duprat S., Brottier P., Coutanceau J.P., Gouzy J.,
RA Parra G., Lardier G., Chapple C., McKernan K.J., McEwan P., Bosak S.,
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RA Kellis M., Volf JN., Guigo R., Zody M.C., Mesirov J.,
RA Lindblad-Toh K., Birren B., Nusbaum C., Kahn D., Robinson-Rechavi M.,
RA Laudet V., Schachter V., Quetier P., Saurin W., Scarpelli C.,
RA Wincker P., Lander E.S., Weissenbach J., Roest Crolius H.,
RT "Genome duplication in the teleost fish Tetraodon nigroviridis reveals
RL the early vertebrate proto-karyotype.";
RN Nature 431:946-957(2004).
RN
RP NUCLEOTIDE SEQUENCE.
RG Genoscope; Whitehead Institute Centre for Genome Research;
RL Submitted (FEB-2004) to the EMBL/GenBank/DBJ databases.
CC -!- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
CC preliminary data.
DR EMBL; CAAB01014769; CAG05615.1; -; Genomic_DNA.
FT NON TER 184
SQ SEQUENCE 184 AA; 20107 MW; 851FB9A69FD16F29 CRC64;

Query Match 35.3%; Score 49; DB 2; Length 184;
Best Local Similarity 34.3%; Pred. NO. 0.55;
Matches 12; Conservative 3; Mismatches 20; Indels 0; Gaps 0;

Qy 3 NTATYATORLNFLXXXXXXNGXPLPTXVGSNTY 37
Db 141 NTATCVTHRLADFLNRSGMNSFVPTNVGAKAF 175

RESULT 24
Q92164.ONCSP PRELIMINARY; PRT; 56 AA.
AC Q92164;
DT 01-NOV-1996 (TREMBlrel. 01, Created)
DT 01-NOV-1996 (TREMBlrel. 01, Last sequence update)
DT 01-JUN-2003 (TREMBlrel. 24, Last annotation update)
DE Calcitonin gene-related peptide (Fragment).
GN Name=CGRP;
OS Oncorhynchus sp. (Salmon).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei;
OC Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.
OX NCBI_TaxID=8025;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=92344325; PubMed=1637123;
RA Jansz H.S., Zandberg J.;
RA "Identification and partial characterization of the salmon
RT calcitonin/CGRP gene by polymerase chain reaction.";
RL Ann. N.Y. Acad. Sci. 657:63-69(1992).
DR EMBL; S40497; AAB22593.1; -; Genomic_DNA.
DR GO; GO:0005576; C:extracellular region; IEA.
DR GO; GO:0005179; F:hormone activity; IEA.
DR InterPro; IPR001693; Calcitonin-like.
DR InterPro; IPR002163; Calcitonin B.
DR Pfam; PF00214; Calc-CGRP-IAPP; I.
DR PRINTS; PR00817; CALCITONINB.
DR SMART; SM00113; CALCITONIN; 1.
DR PROSITE; PS00258; CALCITONIN; 1.
FT NON TER 1
SQ SEQUENCE 56 AA; 6019 MW; C7852837BAF74314 CRC64;

Query Match 34.5%; Score 48; DB 2; Length 56;
Best Local Similarity 34.3%; Pred. NO. 0.22;
Matches 12; Conservative 3; Mismatches 20; Indels 0; Gaps 0;

Qy 3 NTATYATORLNFLXXXXXXNGXPLPTXVGSNTY 37
Db 9 NTATCVTHRLADFLNRSGMNSFVPTNVGAKAF 43

RESULT 25
CALCA_CHKCK STANDARD; PRT; 125 AA.
AC P10286;
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DT 01-MAR-1989 (Rel. 10, Created)
DT 01-NOV-1991 (Rel. 20, Last sequence update)
DT 01-MAY-2005 (Rel. 47, Last annotation update)
DE Calcitonin gene-related peptide precursor (CGRP).
GN Name=CALCA; Synonyms=CALC;
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
OC Gallus.
OX NCBI_TaxID=9031;
RN [1]
RP NUCLEOTIDE SEQUENCE
RX MEDLINE=48030046; PubMed=3666142; DOI=10.1016/0014-5793(87)80510-0;
RA Minvielle S., Cressent M., Delehay M.C., Segond N., Milhaud G.,
RA Jullienne A., Moukhtar M.S., Lasmoles F.;
RT "Sequence and expression of the chicken calcitonin gene.";
RL FEBS Lett. 223:63-68(1987).
RN [2]
RP NUCLEOTIDE SEQUENCE OF 12-73.
RX MEDLINE=86030240; PubMed=4054101;
RA Lasmoles F., Jullienne A., Day F., Minvielle S., Milhaud G.,
RA Moukhtar M.S.;
RT "Elucidation of the nucleotide sequence of chicken calcitonin mRNA:
RT direct evidence for the expression of a lower vertebrate calcitonin-
RT like gene in man and rat.";
RL EMBO J. 4:2603-2607(1985).
RN [3]
RP NUCLEOTIDE SEQUENCE OF 74-125.
RX MEDLINE=86248126; PubMed=3487468; DOI=10.1016/0014-5793(86)81425-9;
RA Minvielle S., Cressent M., Lasmoles F., Jullienne A., Milhaud G.,
RA Moukhtar M.S.;
RT "Isolation and partial characterization of the calcitonin gene in a
RT lower vertebrate. Predicted structure of avian calcitonin gene-related
RT peptide.";
RL FEBS Lett. 203:7-10(1986).
CC -!- FUNCTION: CGRP induces vasodilatation. It dilates a variety of
CC vessels including the coronary, cerebral and systemic vasculature.
CC Its abundance in the CNS also points toward a neurotransmitter or
CC neuromodulator role.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=2;
CC Name=Calcitonin-gene related peptide;
CC IsoId=P10286-1; Sequence=Displayed;
CC Name=Calcitonin;
CC IsoId=P07660-1; Sequence=External;
CC -!- SIMILARITY: Belongs to the calcitonin family.
CC
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CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.
CC
CC EMBL; X06311; CAA29630.1; -; Genomic_DNA.
DR EMBL; X06312; -; NOT_ANNOTATED_CDS; Genomic_DNA.
DR EMBL; X06314; CAA29633.1; -; Genomic_DNA.
DR EMBL; X03012; CAA26796.1; ALT TERM; mRNA.
DR EMBL; D00007; BAA00006.1; -; Genomic_DNA.
DR PIR; S00154; TCCHRP.
DR Ensembl; ENSGALG0000006054; Gallus gallus.
DR InterPro; IPR000443; Anylin.
DR InterPro; IPR001693; Calcitonin-like.
DR InterPro; IPR002163; Calcitonin B.
DR Pfam; PF00214; Calc-CGRP-IAPP; I.
DR PRINTS; PR00817; CALCITONINB.
DR PRINTS; PR00818; ISLETAMYLOID.
DR SMART; SM00113; CALCITONIN; 1.
DR PROSITE; PS00258; CALCITONIN; 1.
DR Alternative splicing; Amidation; Cleavage on pair of basic residues;
KW Hormone; Signal.
FT SIGNAL 1 25 Potential.
FT PROPEP 26 77
```


RA Wimalawansa S.J., Morris H.R., Etienne A., Blench I., Panico M.,
 RT McIntyre I.;
 RA "Isolation, purification and characterization of beta-hCGRP from human
 RT spinal cord";
 RL Biochem. Biophys. Res. Commun. 167:993-1000(1990).
 RN [5]
 RP PROTEIN SEQUENCE OF 82-104.
 RC TISSUE=Pheochromocytoma;
 RA Kitamura K., Kangawa K., Kawamoto M., Ichiki Y., Matsuo H., Eto T.;
 RT "Isolation and characterization of peptides which act on rat
 RL platelets from a pheochromocytoma";
 RL Biochem. Biophys. Res. Commun. 185:134-141(1992).
 CC -!- FUNCTION: CGRP induces vasodilatation. It dilates a variety of
 CC vessels including the coronary, cerebral and systemic vasculature.
 CC Its abundance in the CNS also points toward a neurotransmitter or
 CC neuromodulator role.
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- SIMILARITY: Belongs to the calcitonin family.
 CC
 CC This Swiss-Prot entry is copyright. It is produced through a collaboration
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 CC
 CC EMBL; X04855; CAC05295.1; -; Genomic DNA.
 CC EMBL; X04857; CAC05295.1; JOINED; Genomic DNA.
 CC EMBL; X04861; CAC05295.1; JOINED; Genomic DNA.
 CC EMBL; X02404; CAC26249.1; -; mRNA.
 CC PIR; A25864; A25864.
 CC PIR; I37232; I37232.
 CC HGNM; HGNC:1438; CALCB.
 CC H-InvDB; HIX0009469; -.
 CC MIM; 114160; -.
 CC GO; GO:0005625; C:soluble fraction; TAS.
 CC GO; GO:0005184; F:neuropeptide hormone activity; TAS.
 CC GO; GO:0006874; P:calcium ion homeostasis; TAS.
 CC GO; GO:0007165; P:signal transduction; TAS.
 CC InterPro; IPR001693; Calcitonin-like.
 CC InterPro; IPR002163; Calcitonin B.
 CC Pfam; PF00214; Calc CGRP IAPP; 1.
 CC PRINTS; PR00817; CALCITONINB.
 CC SMART; SM00113; CALCITONIN; 1.
 CC PROSITE; PS00258; CALCITONIN; 1.
 KW Amidation; Cleavage on pair of basic residues;
 KW Direct protein sequencing; Hormone; Signal.
 FT SIGNAL 1 25 Potential.
 FT PROPEP 26 79 Calcitonin gene-related peptide II.
 FT PEPTIDE 82 118 Phenylalanine amide (G-119 provides amide
 FT PROPEP 124 127 group).
 FT MOD_RES 118 118
 FT DISULFID 83 88
 FT CONFLICT 73 73 G -> S (in Ref. 2).
 SQ SEQUENCE 127 AA; 13706 MW; 13706 MW; BOA71A063CDSACE7 CRC64;
 Query Match 30.9%; Score 43; DB 1; Length 127;
 Best Local Similarity 34.3%; Pred. No. 5.4;
 Matches 12; Conservative 1; Mismatches 22; Indels 0; Gaps 0;
 Qy 3 NTATXATQRLXNFXLXXXXXGXPLPXTXVGSNTY 37
 ||||| |||||
 Db 84 NTATCVTHRLAGLLSRSGMGVKSNFVPTNVGSKAF 118
 RESULT 35
 ID Q56910_HUMAN PRELIMINARY; PRT; 127 AA.
 AC Q56910;
 DT 10-MAY-2005 (TrEMBLrel. 30, Created)
 DT 10-MAY-2005 (TrEMBLrel. 30, Last sequence update)

DT 10-MAY-2005 (TrEMBLrel. 30, Last annotation update)
 DE Calcitonin-related polypeptide, beta.
 GN Name=CALCB;
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
 OC Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RC TISSUE=Brain;
 RA MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H.; Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heieh F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
 RA Bobak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
 RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smallos D.E.,
 RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length human
 RT and mouse cDNA sequences";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 RN [2]
 RP NUCLEOTIDE SEQUENCE.
 RC TISSUE=Brain;
 RG NIH MGC Project;
 RL Submitted (APR-2005) to the EMBL/GenBank/DBJ databases.
 DR EMBL; BC092468; AAH92468.1; -; mRNA.
 DR Ensembl; ENSG00000175868; Homo sapiens.
 DR GO; GO:0005576; C:extracellular region; IEA.
 DR GO; GO:0005179; F:hormone activity; IEA.
 DR InterPro; IPR000443; Amylin.
 DR InterPro; IPR001693; Calcitonin-like.
 DR InterPro; IPR002163; Calcitonin B.
 DR Pfam; PF00214; Calc CGRP IAPP; 1.
 DR PRINTS; PR00817; CALCITONINB.
 DR PRINTS; PR00818; ISLETAMYLID.
 DR SMART; SM00113; CALCITONIN; 1.
 DR PROSITE; PS00258; CALCITONIN; 1.
 SQ SEQUENCE 127 AA; 13706 MW; BOA71A063CDSACE7 CRC64;
 Query Match 30.9%; Score 43; DB 2; Length 127;
 Best Local Similarity 34.3%; Pred. No. 5.4;
 Matches 12; Conservative 1; Mismatches 22; Indels 0; Gaps 0;
 Qy 3 NTATXATQRLXNFXLXXXXXGXPLPXTXVGSNTY 37
 ||||| |||||
 Db 84 NTATCVTHRLAGLLSRSGMGVKSNFVPTNVGSKAF 118
 RESULT 36
 ID CALCB_MOUSE STANDARD; PRT; 130 AA.
 AC Q99MP3;
 DT 28-FEB-2003 (Rel. 41, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DT 10-MAY-2005 (Rel. 47, Last annotation update)
 DE Calcitonin gene-related peptide II precursor (CGRP-II) (Beta-type
 DE CGRP).
 GN Name=Calcb;
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;


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OC Muroidea; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN (1)
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=129/SV;
RX MEDLINE=21604266; PubMed=11761712;
RA Thomas P.M., Nasonkin I., Zhang H., Gagel R.F., Core G.J.;
RT "Structure of the mouse calcitonin/calcitonin gene-related peptide
RL alpha and beta genes.";
CC -!- FUNCTION: CGRP induces vasodilatation. It dilates a variety of
CC vessels including the coronary, cerebral and systemic vasculature.
CC Its abundance in the CNS also points toward a neurotransmitter or
CC neuromodulator role (By similarity).
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the calcitonin family.
CC
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CC
CC EMBL; AF325526; AAK16431.1; -; Genomic DNA.
DR EMBL; AF325524; AAK16431.1; JOINED; Genomic_DNA.
DR Ensembl; ENSMUSG00000030666; Mus musculus.
DR MGI; MGI:2151254; Calc.
DR GO; GO:0005615; C:extracellular space; TAS.
DR InterPro; IPR000443; Amylin.
DR InterPro; IPR001693; Calcitonin-like.
DR InterPro; IPR002163; Calcitonin.B.
DR Pfam; PF00214; Calc_CGRP_IAPP; I.
DR PRINTS; PR00817; CALCITONINB.
DR SMART; SM00113; ISLETAMYLOID.
DR PROSITE; PS00258; CALCITONIN; 1.
DR AMIDATION; Cleavage on pair of basic residues; Hormone; Signal.
FT SIGNAL 1 26 Potential.
FT PROPEP 27 82 By similarity.
FT PEPTIDE 84 120 Calcitonin gene-related peptide II.
FT PROPEP 127 130 By similarity.
FT MOD_RES 120 120 Phenylalanine amide (G-121 provides amide
FT group) (By similarity).
FT DISULFID 85 90 By similarity.
FT SEQUENCE 130 AA; 14623 MW; 972992448F6C536 CRC64;

Query Match 30.9%; Score 43; DB 1; Length 130;
Best Local Similarity 34.3%; Pred. No. 5.6;
Matches 12; Conservative 2; Mismatches 21; Indels 0; Gaps 0;

Oy 3 NTATXATQRLXNFXLXXXXXNGXPXPXTXGNTY 37
Db 86 NTATCVTHRLADLLSRGGVLKDNFVPTDVGSEAF 120

RESULT 37
YQBI_CAEEL
ID YQBI_CAEEL STANDARD; PRT; 469 AA.
AC Q09255;
DT 01-NOV-1997 (Rel. 35, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 13-SEP-2005 (Rel. 48, Last annotation update)
DE Hypothetical protein C30G12.1 in chromosome II.
GN ORFNames=C30G12.1;
OS Caenorhabditis elegans.
OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
OC Rhabditidae; Pelodierinae; Caenorhabditis.
OX NCBI_TaxID=6239;
RN (1)
RP NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RC STRAIN=Bristol N2;
RX MEDLINE=99069613; PubMed=9851916;
RG The C. elegans sequencing consortium;

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RT "Genome sequence of the nematode C. elegans: a platform for
RT investigating biology.";
RL Science 282:2012-2018(1998).
RN (2)
RP SEQUENCE REVISION.
RG WormBase consortium;
RL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.
CC
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CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
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CC removed.
CC
CC EMBL; U21319; AAL16307.1; -; Genomic_DNA.
DR Ensembl; C30G12.1; Caenorhabditis elegans.
DR WormBase; WBGene00016273; C30G12.1.
DR WormPep; C30G12.1; CE29685.
DR InterPro; IPR010480; Prot inh_I33.
DR Pfam; PF06394; Pepsin-I3; I.
KW Complete proteome; Hypothetical protein.
FT COMPBias 90 93 Poly-Ser.
FT COMPBias 294 304 Poly-Thr.
FT COMPBias 310 314 Poly-Thr.
FT COMPBias 345 353 Poly-Ser.
FT COMPBias 392 395 Poly-Thr.
FT SEQUENCE 469 AA; 52847 MW; 845099206BB9885D CRC64;

Query Match 30.9%; Score 43; DB 1; Length 469;
Best Local Similarity 35.5%; Pred. No. 24;
Matches 11; Conservative 1; Mismatches 19; Indels 0; Gaps 0;

Oy 3 NTATXATQRLXNFXLXXXXXNGXPXPXTXG 33
Db 389 NVATTTPLPLRFLPTPAAPNPLPSTRVG 419

RESULT 38
Q4WLC6_ASPTU
ID Q4WLC6_ASPTU PRELIMINARY; PRT; 482 AA.
AC Q4WLC6;
DT 13-SEP-2005 (TrEMBLrel. 31, Created)
DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
DE Hypothetical protein.
GN ORFNames=Afu6g14020;
OS Aspergillus fumigatus Af293.
OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Eurotiomycetes;
OC Eurotiales; Trichocomaceae; mitosporic Trichocomaceae; Aspergillus.
OX NCBI_TaxID=330879;
RN (1)
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=Af293;
RA Nierman W., Pain A., Anderson M.J., Wortman J., Kim H.Stanley.,
RA Arroya J., Berriman M., Abe K., Archer B.B., Bermejo C., Bennett J.,
RA Bowyer P., Chen D., Collins M., Coulson R., Davies R., Dyer P.S.,
RA Farman M., Fedorova N., Fedorova N., Feldblyum T.V., Fischer R.,
RA Fosker N., Fraser A., Garcia J.L., Garcia M.J., Goble A.,
RA Goldman G.H., Goni K., Griffith-Jones S., Gwilliam R., Haas B.,
RA Haas H., Harris D., Horiuchi H., Huang J., Humphrey S., Jimenez J.,
RA Keller N., Khouri H., Kitamoto K., Kobayashi T., Kulkarni R.,
RA Kumagai T., Lafton A., Latge J.-P., Li W., Lord A., Lu C.,
RA Majoros W.H., May G.S., Miller B.L., Mohamoud Y., Molina M., Monod M.,
RA Mounys I., Mulligan S., Murphy L., O'Neill S., Paulsen I.,
RA Penalba M.A., Perlea M., Price C., Pritchard B.L., Quail M.A.,
RA Rabinowitz E., Rawlins N., Rajandream M.-A., Reichard U.,
RA Renauld H., Robson G.D., Rodriguez de Cordoba S., Rodriguez-Pena J.M.,
RA Ronning C.M., Rutter S., Salzberg S.L., Sanchez M.,
RA Sanchez-Ferrero J.C., Saunders D., Seeger K., Squares R., Squares S.,
RA Takeuchi M., Tekala F., Turner G., Vazquez de Aldana C.R., Weidman J.,
RA White O., Woodward J., Yu J.-H., Fraser C., Galagan J.E., Asai K.,
RA Machida M., Hall N., Barrell B., Denning D.W.;
RG "Genomic sequence of the pathogenic and allergenic filamentous fungus

```



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RT Aspergillus fumigatus.";
RL Submitted (MAY-2005) to the EMBL/GenBank/DBJ databases.
CC -!- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
CC preliminary data.
DR EMBL; AAH01000006; EAL89238.1; -; Genomic_DNA.
KW Hypothetical protein.
SQ SEQUENCE 482 AA; 53183 MW; BE79BD9B597F8216 CRC64;

Query Match 30.9%; Score 43; DB 2; Length 482;
Best Local Similarity 50.0%; Pred. No. 25;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 24 GPXLPXTXVGSNTY 37
Db 214 GPEIPYTIYGSNSF 227
|||:|||||:
- - - - -

RESULT 39
Q55HY4 CRYNE PRELIMINARY; PRT; 1502 AA.
AC Q55HY4;
DT 13-SEP-2005 (TrEMBLrel. 31, Created)
DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
DE Hypothetical protein.
GN ORFNames=CNBM2330;
OS Cryptococcus neoformans var. neoformans B-3501A.
OC Eukaryota; Fungi; Basidiomycota; Hymenomycetes; Heterobasidiomycetes;
OC Tremellomycetidae; Tremellales; Tremellaceae; Filobasidiella.
OX NCBI_TaxID=283643;
[1]
RN NUCLEOTIDE SEQUENCE.
RC STRAIN=B-3501A;
RA Fung E., Hyman R.W., Rowley D., Bruno D., Miranda M., Fukushima M.,
RA Wickes B.L., Fu J., Davis R.W.;
RT "Cryptococcus neoformans serotype D sequencing.";
RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
CC -!- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
CC preliminary data.
DR EMBL; AAFF01000064; EAL17429.1; -; Genomic_DNA.
KW Hypothetical protein.
SQ SEQUENCE 1502 AA; 164196 MW; AEF63A266216FF3C CRC64;

Query Match 30.9%; Score 43; DB 2; Length 1502;
Best Local Similarity 33.3%; Pred. No. 89;
Matches 11; Conservative 2; Mismatches 20; Indels 0; Gaps 0;

Qy 4 TATXATQRLXNFXLXXXXXNGPXLPTXVGSNT 36
Db 956 TATDAVSHFLNCLLGSLNPAPVASVYTPIGINS 988
|||||:|||||:
- - - - -

RESULT 40
Q5K7G8 CRYNE PRELIMINARY; PRT; 1502 AA.
AC Q5K7G8;
DT 10-MAY-2005 (TrEMBLrel. 30, Created)
DT 10-MAY-2005 (TrEMBLrel. 30, Last sequence update)
DT 10-MAY-2005 (TrEMBLrel. 30, Last annotation update)
DE Translational initiation-related protein, putative.
GN ORFNames=CNM02490;
OS Cryptococcus neoformans var. neoformans JEC21.
OC Eukaryota; Fungi; Basidiomycota; Hymenomycetes; Heterobasidiomycetes;
OC Tremellomycetidae; Tremellales; Tremellaceae; Filobasidiella.
OX NCBI_TaxID=214684;
[1]
RN NUCLEOTIDE SEQUENCE.
RC STRAIN=JEC21;
RA Loftus B., Amedeo P., Roncaglia P., Vamathevan J., Utterback T.,
RA Van Aken S., Fraser C.;
RL Submitted (MAY-2004) to the EMBL/GenBank/DBJ databases.

RT Aspergillus fumigatus.";
RL Submitted (MAY-2005) to the EMBL/GenBank/DBJ databases.
CC -!- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
CC preliminary data.
DR EMBL; AAH01000006; EAL89238.1; -; Genomic_DNA.
KW Hypothetical protein.
SQ SEQUENCE 482 AA; 53183 MW; BE79BD9B597F8216 CRC64;

Query Match 30.9%; Score 43; DB 2; Length 482;
Best Local Similarity 50.0%; Pred. No. 25;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 24 GPXLPXTXVGSNTY 37
Db 214 GPEIPYTIYGSNSF 227
|||:|||||:
- - - - -

RESULT 39
Q55HY4 CRYNE PRELIMINARY; PRT; 1502 AA.
AC Q55HY4;
DT 13-SEP-2005 (TrEMBLrel. 31, Created)
DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
DE Hypothetical protein.
GN ORFNames=CNBM2330;
OS Cryptococcus neoformans var. neoformans B-3501A.
OC Eukaryota; Fungi; Basidiomycota; Hymenomycetes; Heterobasidiomycetes;
OC Tremellomycetidae; Tremellales; Tremellaceae; Filobasidiella.
OX NCBI_TaxID=283643;
[1]
RN NUCLEOTIDE SEQUENCE.
RC STRAIN=B-3501A;
RA Fung E., Hyman R.W., Rowley D., Bruno D., Miranda M., Fukushima M.,
RA Wickes B.L., Fu J., Davis R.W.;
RT "Cryptococcus neoformans serotype D sequencing.";
RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
CC -!- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
CC preliminary data.
DR EMBL; AAFF01000064; EAL17429.1; -; Genomic_DNA.
KW Hypothetical protein.
SQ SEQUENCE 1502 AA; 164196 MW; AEF63A266216FF3C CRC64;

Query Match 30.9%; Score 43; DB 2; Length 1502;
Best Local Similarity 33.3%; Pred. No. 89;
Matches 11; Conservative 2; Mismatches 20; Indels 0; Gaps 0;

Qy 4 TATXATQRLXNFXLXXXXXNGPXLPTXVGSNT 36
Db 956 TATDAVSHFLNCLLGSLNPAPVASVYTPIGINS 988
|||||:|||||:
- - - - -

RESULT 40
Q5K7G8 CRYNE PRELIMINARY; PRT; 1502 AA.
AC Q5K7G8;
DT 10-MAY-2005 (TrEMBLrel. 30, Created)
DT 10-MAY-2005 (TrEMBLrel. 30, Last sequence update)
DT 10-MAY-2005 (TrEMBLrel. 30, Last annotation update)
DE Translational initiation-related protein, putative.
GN ORFNames=CNM02490;
OS Cryptococcus neoformans var. neoformans JEC21.
OC Eukaryota; Fungi; Basidiomycota; Hymenomycetes; Heterobasidiomycetes;
OC Tremellomycetidae; Tremellales; Tremellaceae; Filobasidiella.
OX NCBI_TaxID=214684;
[1]
RN NUCLEOTIDE SEQUENCE.
RC STRAIN=JEC21;
RA Loftus B., Amedeo P., Roncaglia P., Vamathevan J., Utterback T.,
RA Van Aken S., Fraser C.;
RL Submitted (MAY-2004) to the EMBL/GenBank/DBJ databases.

[2]
RN NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RC STRAIN=JEC21;
RX PubMed=15653466; DOI=10.1126/science.1103773;
RA Vamathevan J., Miranda M., Anderson I.J., Fraser J.A., Allen J.E.,
RA Bodet I.E., Brent M.R., Chiu R., Doering T.L., Donlin M.J.,
RA D'Souza C.A., Fox D.S., Grinberg V., Fu J., Fukushima M., Haas B.J.,
RA Huang J.C., Janbon G., Jones S.J.M., Koo H.L., Krzywinski M.I.,
RA Kwon-Chung K.J., Lengeler K.B., Maiti R., Marra M.A., Marra R.E.,
RA Mathewson C.A., Mitchell T.G., Pertea M., Riggs F.R., Salzberg S.L.,
RA Schein J.E., Shvartsbeyn A., Shin H., Shumway M., Specht C.A.,
RA Suh B.B., Tenney A., Utterback T.R., Wickes B.L., Wortman J.R.,
RA Wye N.H., Kronstad J.W., Lodge J.K., Haitman J., Davis R.W.,
RA Fraser C.M., Hyman R.W.;
RT "The genome of the basidiomycetous yeast and human pathogen
RT Cryptococcus neoformans.";
RL Science 307:1321-1324(2005).
DR EMBL; AB017353; AAM46737.1; -; Genomic_DNA.
DR InterPro; IPR011990; TPR-like_helical.
KW Complete proteome.
SQ SEQUENCE 1502 AA; 164198 MW; AEF63A266216FF3C CRC64;

Query Match 30.9%; Score 43; DB 2; Length 1502;
Best Local Similarity 33.3%; Pred. No. 89;
Matches 11; Conservative 2; Mismatches 20; Indels 0; Gaps 0;

Qy 4 TATXATQRLXNFXLXXXXXNGPXLPTXVGSNT 36
Db 956 TATDAVSHFLNCLLGSLNPAPVASVYTPIGINS 988
|||||:|||||:
- - - - -

RESULT 41
CALCA SHEEP STANDARD; PRT; 37 AA.
ID CALCA_SHEEP STANDARD; PRT; 37 AA.
AC P30881;
DT 01-JUL-1993 (Rel. 26, Created)
DT 01-JUL-1993 (Rel. 26, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Calcitonin gene-related peptide (CGRP).
GN Name=CALCA; Synonyms=CALC;
OS Ovis aries (Sheep).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
OC Pecora; Bovidae; Caprinae; Ovis.
OX NCBI_TaxID=9940;
[1]
RN PROTEIN SEQUENCE.
RC TISSUE=Hypothalamus;
RX MEDLINE=93038624; PubMed=1417824;
RA Miyata A., Jiang L., Minamino N., Arimura A.;
RT "Identification of calcitonin gene related peptide in ovine
RT hypothalamic extract.";
RL Biochem. Biophys. Res. Commun. 187:1474-1479(1992).
CC -!- FUNCTION: CGRP induces vasodilation. It dilates a variety of
CC vessels including the coronary, cerebral and systemic vasculature.
CC Its abundance in the CNS also points toward a neurotransmitter or
CC neuromodulator role.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the calcitonin family.
CC This Swiss-Prot entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.
CC PIR; JH0709; JH0709.
CC InterPro; IPR001693; Calcitonin-like.
CC InterPro; IPR002163; Calcitonin.B.
CC Pfam; PF00214; Calc_CGRP_IAPP; 1.
CC PRINTS; PR00817; CALCITONINB.
CC SMART; SM00113; CALCITONIN; 1.

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DR PROSITE: PS00258; CALCITONIN; 1.
KW Amidation; Direct protein sequencing; Hormone.
FT MOD_RES 37 37 Phenylalanine amide.
FT DISULFID 2 7 By similarity.
SQ SEQUENCE 37 AA; 3780 MW; F5DDF64D248B6A47 CRC64;

Query Match 30.2%; Score 42; DB 1; Length 37;
Best Local Similarity 34.3%; Pred. No. 2.1;
Matches 12; Conservative 1; Mismatches 22; Indels 0; Gaps 0;

Qy 3 NTATXATQRLNFXLXXXXXNXPXLPXTXVGSNTY 37
|||||
Db 3 NTATCVTHRLAGLLSRSGVGVKSNFVPTNVGSQAF 37

RESULT 42
Q66VCL1 RAT PRELIMINARY; PRT; 50 AA.
AC Q66VCL1;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Alpha-calcitonin gene-related peptide (Fragment).
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]_
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=Wistar;
RA Gerriagolia I., Garcia del Cano G., Canudas J., Sarasa M.,
RA Martinez-Willan L.;
RT "Evidence for expression of calcitonin gene-related peptide in
RT collicular neurons during postnatal development.";
RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY702025; AAU07931.1; -; mRNA.
DR GO; GO:0005576; C:extracellular region; IEA.
DR GO; GO:0005179; F:hormone activity; IEA.
DR InterPro; IPR001693; Calcitonin-like.
DR Pfam; PF00214; Calc CGRP IAPP; I.
DR PRINTS; PR00817; CALCITONINB.
DR SMART; SM00113; CALCITONIN.
DR DR PROSITE; PS00258; CALCITONIN; 1.
FT NON_TER 1
SQ SEQUENCE 50 AA; 5402 MW; 295BEFF036BCF7FA CRC64;

Query Match 30.2%; Score 42; DB 2; Length 50;
Best Local Similarity 34.3%; Pred. No. 3;
Matches 12; Conservative 1; Mismatches 22; Indels 0; Gaps 0;

Qy 3 NTATXATQRLNFXLXXXXXNXPXLPXTXVGSNTY 37
|||||
Db 7 NTATCVTHRLAGLLSRSGVGVKDNFVPTNVGSQAF 41

RESULT 43
CALCA MOUSE
ID CALCA MOUSE STANDARD; PRT; 128 AA.
AC Q99JA0;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Calcitonin gene-related peptide I precursor (CGRP-I) (Alpha-type
DE CGRP).
GN Name=Calca; Synonyms=Calc;
OS Mus musculus (Mouse);
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]_
RP NUCLEOTIDE SEQUENCE.
RA Sarasa M., Catalan J., Aramayona J., Sotribas V.;
RA "Mouse CGRP precursor is highly homologous to that of the rat.";
RL Submitted (DEC-2000) to the EMBL/GenBank/DBJ databases.
[2]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=129/SV;
RC MEDLINE=21604266; PubMed=11761712;
RA Thomas P.M., Nasonkin I., Zhang H., Gagel R.F., Core G.J.;
RT "Structure of the mouse calcitonin/calcitonin gene-related peptide
RT alpha and beta genes.";
RL DNA Seq. 12:131-135(2001).
[3]
RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].
RC STRAIN=C57BL/6J; TISSUE=Mammary gland;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Berge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Wozny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahney J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butlerfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
CC -!- FUNCTION: CGRP induces vasodilation. It dilates a variety of
CC vessels including the coronary, cerebral and systemic vasculature.
CC Its abundance in the CNS also points toward a neurotransmitter or
CC neuromodulator role. It also elevates platelet cAMP (By
CC similarity).
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=2;
CC Name=Calcitonin-gene related peptide I;
CC IsoId=Q99JA0-1; Sequence=Displayed,
CC Name=Calcitonin;
CC IsoId=P70160-1; Sequence=External;
CC -!- SIMILARITY: Belongs to the calcitonin family.
CC
CC This Swiss-Prot entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.
CC
CC EMBL; AF330212; AAK06841.1; -; mRNA.
CC EMBL; AF325522; AAK18181.1; -; Genomic_DNA.
CC EMBL; AF325521; AAK18181.1; JOINED; Genomic_DNA.
CC EMBL; BC028771; AAH28771.1; -; mRNA.
CC Ensembl; ENSMUSG0000030669; Mus musculus.
CC MGI; MGI:2151253; Calca.
CC DR GO; GO:0005615; C:extracellular space; TAS.
CC DR GO; GO:0005622; C:intracellular; IDA.
CC DR GO; GO:0001635; F:calcitonin gene-related polypeptide recepto. .; IDA.
CC DR GO; GO:0005102; F:receptor binding; IDA.
CC DR GO; GO:0007631; P:feeding behavior; IDA.
CC DR GO; GO:0006954; P:inflammatory response; IDA.
CC DR GO; GO:0045986; P:negative regulation of smooth muscle contra. .; IDA.
CC DR GO; GO:0007218; P:neuropeptide signaling pathway; IDA.
CC InterPro; IPR000443; Amylin.
CC InterPro; IPR001693; Calcitonin-like.
CC InterPro; IPR002163; Calcitonin_B.
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DR Pfam; PF00214; Calc_CGRP_IAPP; 1.
 DR PRINTS; PRO0817; CALCITONINB.
 DR PRINTS; PRO0818; ISLETAMYLID.
 DR SMART; SM00113; CALCITONIN; 1.
 DR PROSITE; PS00258; CALCITONIN; 1.
 KW Alternative splicing; Amidation; Cleavage on pair of basic residues;
 KW Hormone; Signal.
 FT SIGNAL 1 25 Potential.
 FT PROPEP 26 80 By similarity.
 FT PEPTIDE 83 119 Calcitonin gene-related peptide I.
 FT PROPEP 125 128 By similarity.
 FT MOD_RES 119 119 Phenylalanine amide (G-120 provides amide group).
 FT DISULFID 84 89 By similarity.
 SQ SEQUENCE 128 AA; 14065 MW; 83BB0B36C8B4239E CRC64;
 Query Match 30.2%; Score 42; DB 1; Length 128;
 Best Local Similarity 34.3%; Pred. No. 8.6;
 Matches 12; Conservative 1; Mismatches 22; Indels 0; Gaps 0;
 Oy 3 NTATXATQRLXNFXLXXXXXNXPXLPXTXVGSNTY 37
 ||||| ||||| :
 Db 85 NTATCVTHRLAGLLSRSGVVKDFVPTNVGSEAF 119
 ||||| ||||| :
 RESULT 44
 CALCA RAT
 ID CALCA RAT STANDARD; PRT; 128 AA.
 AC P01256;
 DT 21-JUL-1986 (Rel. 01, Created)
 DT 01-APR-1988 (Rel. 07, Last sequence update)
 DT 10-MAY-2005 (Rel. 47, Last annotation update)
 DE Calcitonin gene-related peptide I precursor (CGRP-I) (Alpha-type CGRP).
 GN Name=Calca; Synonyms=Calc;
 OS Rattus norvegicus (Rat);
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
 OC Muridae; Muridae; Murinae; Rattus.
 OX NCBI_TaxID=10116;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RX MEDLINE=85166259; PubMed=3872459;
 RA Jonas V., Lin C.R., Kawashima E., Semon D., Swanson L.W.,
 RA Mermod J.-J., Evans R.M., Rosenfeld M.G.;
 RT "Alternative RNA processing events in human calcitonin/calcitonin gene-related peptide gene expression."
 RL Proc. Natl. Acad. Sci. U.S.A. 82:1994-1998 (1985).
 RN [2]
 RP NUCLEOTIDE SEQUENCE.
 RX MEDLINE=82220111; PubMed=6283379;
 RA Amara S.G., Jonas V., Rosenfeld M.G., Ong E.S., Evans R.M.;
 RA "Alternative RNA processing in calcitonin gene expression generates mRNAs encoding different polypeptide products."
 RL Nature 298:240-244 (1982).
 RN [3]
 RP NUCLEOTIDE SEQUENCE.
 RX MEDLINE=85300490; PubMed=2994212;
 RA Amara S.G., Arriza J.L., Leff S.E., Swanson L.W., Evans R.M.,
 RA Rosenfeld M.G.;
 RT "Expression in brain of a messenger RNA encoding a novel neuropeptide homologous to calcitonin gene-related peptide."
 RL Science 229:1094-1097 (1985).
 CC -!- FUNCTION: CGRP induces vasodilatation. It dilates a variety of vessels including the coronary, cerebral and systemic vasculature. Its abundance in the CNS also points toward a neurotransmitter or neuromodulator role.
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- ALTERNATIVE PRODUCTS:
 CC Event=Alternative splicing; Named isoforms=2;
 CC Name=Calcitonin-gene related peptide I;
 CC IsoId=P01256-1; Sequence=Displayed;
 CC Name=Calcitonin;

CC IsoId=P01257-1; Sequence=External;
 CC -!- SIMILARITY: Belongs to the calcitonin family.
 CC -----
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 CC -----
 CC EMBL; L29188; AAB59682.1; -; Genomic DNA.
 CC EMBL; L00109; AAB59682.1; JOINED; Genomic DNA.
 CC EMBL; L00110; AAB59682.1; JOINED; Genomic DNA.
 CC EMBL; V01231; CA24541.1; -; mRNA.
 CC EMBL; M11597; AAA40847.1; -; mRNA.
 DR PIR; A01524; TCRTT.
 DR PIR; B44173; B44173.
 DR InterPro; IPR000443; Amylin.
 DR InterPro; IPR001693; Calcitonin-like.
 DR InterPro; IPR002163; Calcitonin_B.
 DR Pfam; PF00214; Calc_CGRP_IAPP; 1.
 DR PRINTS; PRO0817; CALCITONINB.
 DR PRINTS; PRO0818; ISLETAMYLID.
 DR SMART; SM00113; CALCITONIN; 1.
 DR PROSITE; PS00258; CALCITONIN; 1.
 KW Alternative splicing; Amidation; Cleavage on pair of basic residues;
 KW Hormone; Signal.
 FT SIGNAL 1 25
 FT PROPEP 26 80
 FT PEPTIDE 83 119 Calcitonin gene-related peptide I.
 FT PROPEP 125 128
 FT MOD_RES 119 119 Phenylalanine amide (G-120 provides amide group).
 FT DISULFID 84 89 By similarity.
 FT CONFLICT 40 40 Missing (in Ref. 2 and 3).
 FT CONFLICT 51 51 Missing (in Ref. 2 and 3).
 FT CONFLICT 70 70 Q -> EQ (in Ref. 2 and 3).
 FT CONFLICT 99 99 S -> R (in Ref. 3).
 SQ SEQUENCE 128 AA; 13948 MW; 75D14869C17078D3 CRC64;
 Query Match 30.2%; Score 42; DB 1; Length 128;
 Best Local Similarity 34.3%; Pred. No. 8.6;
 Matches 12; Conservative 1; Mismatches 22; Indels 0; Gaps 0;
 Oy 3 NTATXATQRLXNFXLXXXXXNXPXLPXTXVGSNTY 37
 ||||| ||||| :
 Db 85 NTATCVTHRLAGLLSRSGVVKDFVPTNVGSEAF 119
 ||||| ||||| :
 RESULT 45
 CALCB HORSE
 ID CALCB HORSE STANDARD; PRT; 129 AA.
 AC QN0073;
 DT 28-FEB-2003 (Rel. 41, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DT 10-MAY-2005 (Rel. 47, Last annotation update)
 DE Calcitonin gene-related peptide II precursor (CGRP-II) (Beta-type CGRP).
 GN Name=CALCB;
 OS Equus caballus (Horse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Laurasiatheria; Perissodactyla; Equidae; Equus.
 OX NCBI_TaxID=9796;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RX MEDLINE=22470155; PubMed=12581884; DOI=10.1016/S0303-7207(02)00289-7;
 RA Toribio R.E., Kohn C.W., Leone G.W., Capen C.C., Rosol T.J.;
 RT "Molecular cloning and expression of equine calcitonin, calcitonin gene-related peptide-I, and calcitonin gene-related peptide-II."
 RL Mol. Cell. Endocrinol. 199:119-128 (2003).
 CC -!- FUNCTION: CGRP induces vasodilatation. It dilates a variety of vessels including the coronary, cerebral and systemic vasculature. Its abundance in the CNS also points toward a neurotransmitter or neuromodulator role (By similarity).
 CC

```
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the calcitonin family.
CC -----
CC This Swiss-Prot entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.
CC -----
DR EMBL; AF257470; AAF70199.1; -; mRNA.
DR InterPro; IPR000443; Amylin.
DR InterPro; IPR01693; Calcitonin-like.
DR InterPro; IPR002163; Calcitonin-B.
DR Pfam; PF00214; Calc_CGRP_IAPP; 1.
DR PRINTS; PR00817; CALCITONINB.
DR PRINTS; PR00818; ISLETAMYLOID.
DR SMART; SM00113; CALCITONIN; 1.
DR PROSITE; PS00258; CALCITONIN; 1.
KW Amidation; Cleavage on pair of basic residues; Hormone; Signal.
FT SIGNAL 1 25 Potential.
FT PROPEP 26 81 By similarity.
FT PEPTIDE 84 120 Calcitonin gene-related peptide II.
FT PROPEP 126 129 By similarity.
FT MOD_RES 120 120 Phenylalanine amide (G-121 provides amide
FT DISULFID 85 90 group) (By similarity).
FT SEQUENCE 129 AA; 13925 MW; 97C2C7AC713ABD9B CRC64;
Query Match 30.2%; Score 42; DB 1; Length 129;
Best Local Similarity 34.3%; Pred. No. 8.7;
Matches 12; Conservative 1; Mismatches 22; Indels 0; Gaps 0;
Qy 3 NTATYATQRLNFXLXXXXXNKGXPLPTXVGSNTY 37
| | | | | | | | | | | | | | | | | | |
Db 86 NTATCVTHRLAGLLSRSGGVVKSFNFTVDVGSEAF 120
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RESULT 46
ID Q51QAI MAGGR PRELIMINARY; PRT; 171 AA.
AC Q51QAI;
DT 13-SEP-2005 (TrEMBLrel. 31, Created)
DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
DE Predicted protein.
GN ORFNames=MG00225.4;
OS Magnaporthe grisea 70-15.
OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;
OC Sordariomycetes incertae sedis; Magnaportheaceae; Magnaporthe.
OX NCBI_TaxID=242507;
[1]
RN NUCLEOTIDE SEQUENCE.
RC STRAIN=70-15;
RA Birren B., Nusbaum C., Abebe A., Abouelleil A., Adekoya E.,
RA Ait-zahra M., Allen N., Allen T., An P., Anderson M., Anderson S.,
RA Arachchi H., Armbruster J., Bachantsang P., Baldwin J., Barry A.,
RA Bayul T., Blitshteyn B., Bloom T., Blye J., Boguslavskiy L.,
RA Borowsky M., Boukhgalter B., Brunache A., Butler J., Calixte N.,
RA Calvo S., Camarata J., Campo K., Chang J., Cheshatsang Y., Citroen M.,
RA Collinmore A., Considine T., Cook A., Cooke P., Corum B., Cuomo C.,
RA David R., Dawoe T., Degray S., Dodge S., Dooley K., Dorje P.,
RA Dorjee K., Dorris L., Duffey N., Dupes A., Elkins T., Engels R.,
RA Erickson J., Farina A., Faro S., Ferreira P., Fischer H.,
RA Fitzgerald M., Foley K., Gage D., Galagan J., Gearin G., Gnerre S.,
RA Gnirke A., Goyette A., Graham J., Grandbois E., Gyaltsen K., Hafez N.,
RA Hagopian D., Hagos B., Hall J., Hatcher B., Heller A., Higgins H.,
RA Honan T., Horn A., Houde N., Hughes L., Hulme W., Huaby B., Iliev I.,
RA Jaffe D., Jones C., Kanak M., Kanat A., Kanvasselis M., Karlsson E.,
RA Kells C., Kieu A., Kisher P., Kodira C., Kulbokas E., Labutti K.,
RA Lana D., Landers T., Leger J., Levine S., Lewis D., Lewis T.,
RA Lindblad-toh K., Liu X., Lokitsang T., Lokitsang Y., Lucien O.,
RA Lui A., Ma L.-J., Mabbitt R., Macdonald J., Maclean C., Major J.,
RA Manning J., Marabella R., Maru K., Matthews C., Mauceli E.,
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RA McCarthy M., McDonough S., Mcghee T., Meldrim J., Meneus L.,
RA Mesirov J., Mihalev A., Mihova T., Mikkelsen T., Mlenga V., Moru K.,
RA Mozes J., Mulrain L., Munson G., Naylor J., News C., Nguyen C.,
RA Nguyen N., Nicol R., Nielsen C., Nizzari M., Norbu C.,
RA Norbu N., O'donnell P., Okoawo O., O'leary S., Omotosho B.,
RA O'Neill K., Osman S., Parker S., Perrin D., Phunkhang P., Piquani B.,
RA Purcell S., Rachupka T., Ramasamy U., Rameau R., Ray V., Raymond C.,
RA Retta R., Richardson S., Rise C., Rodriguez J., Rogers J., Rogov P.,
RA Ruman M., Schupbach R., Seaman C., Settipalli S., Sharpe T.,
RA Sheridan J., Sherpa N., Shi J., Smirnov S., Smith C., Sougnez C.,
RA Spencer B., Stalker J., Stange-thomann N., Stavropoulos S.,
RA Stetson K., Stone C., Stone S., Stubbs M., Talamas J., Tchuinka P.,
RA Tenzing P., Tesfaye S., Theodore J., Thoulutsang Y., Tophkang K.,
RA Towey S., Teamlia T., Tsomo N., Vallee D., Vassiliev H.,
RA Venkataraman V., Vinson J., Vo A., Wade C., Wang S., Wangchuk T.,
RA Wangdi T., Whittaker C., Wilkinson J., Wu Y., Wyman D., Yadvav S.,
RA Yang S., Yang X., Yeager S., Yee E., Young G., Zainoun J., Zembeck L.,
RA Zimmer A., Zody M., Lander E.;
RT "The genome sequence of Magnaporthe grisea.";
EL Submitted (OCT-2003) to the EMBL/GenBank/DBJ databases.
RN [2]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=70-15;
RA Dean R., Mitchell T., Brown D., Pan H., Thon M.;
RL Submitted (OCT-2003) to the EMBL/GenBank/DBJ databases.
CC -!- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
CC preliminary data.
DR EMBL; AACU01001389; EAA48567.1; -; Genomic DNA.
SQ SEQUENCE 171 AA; 18327 MW; FF892C245B62E04E CRC64;
Query Match 30.2%; Score 42; DB 2; Length 171;
Best Local Similarity 22.9%; Pred. No. 12;
Matches 8; Conservative 6; Mismatches 21; Indels 0; Gaps 0;
Qy 3 NTATYATQRLNFXLXXXXXNKGXPLPTXVGSNTY 37
| | | | | | | | | | | | | | | | | | |
Db 8 SVATTSSTLTQTSSSTSTGTGPACATAPNAEY 42
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RESULT 47
ID Q41IA8 GIBZE PRELIMINARY; PRT; 378 AA.
AC Q41IA8;
DT 13-SEP-2005 (TrEMBLrel. 31, Created)
DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
DE Hypothetical protein.
GN ORFNames=FG09000.1;
OS Gibberella zeae PH-1.
OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;
OC Hypocreomycetidae; Hypocreales; Nectriaceae; Gibberella.
OX NCBI_TaxID=229533;
[1]
RN NUCLEOTIDE SEQUENCE.
RC STRAIN=PH-1;
RA Birren B., Nusbaum C., Abouelleil A., Allen N., Anderson S.,
RA Arachchi H.M., Barna N., Bastien V., Bloom T., Boguslavskiy L.,
RA Boukhgalter B., Butler J., Calvo S.E., Camarata J., Chang J.,
RA Choepl J.S., Collymore A., Cook A., Cooke P., Corum B., Dearellano K.,
RA Diaz J.S., Dodge S., Dooley K., Dorris L., Elkins T., Engels R.,
RA Erickson J., Faro S., Ferreira P., FitzGerald M., Gage D., Galagan J.,
RA Gardyna S., Gnerre S., Graham L., Grand-pierre N., Hafez N.,
RA Hagopian D., Hagos B., Hall J., Horton L., Hulme W., Iliev I.,
RA Jaffe D., Johnson R., Jones C., Kamal M., Kamat A., Karatas A.,
RA Kells C., Landers T., Levine K., Lindblad-toh K., Liu G., Lui A.,
RA Ma L.-J., Mabbitt R., Maclean C., Macdonald J., Major J., Manning
RA Matthews C., Mauceli E., McCarthy M., Meldrim J., Meneus L.,
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RA Mihova T., Mlenga V., Murphy T., Naylor J., Nguyen C., Nicol R.,
RA Nielsen C.B., Norbu C., O'Connor T., O'Donnell P., O'Neill D.,
RA Oliver J., Peterson K., Phunkhang P., Pierre N., Purcell S.,
RA Rachupka A., Ramasamy U., Raymond C., Retta R., Rise C., Rogov P.,
RA Roman J., Schauer S., Schupbach R., Seaman S., Severy P., Smirnov S.,
RA Smith C., Spencer B., Stange-Thomann N., Stojanovic N., Stubbs M.,
RA Talamas J., Tesfaye S., Theodore J., Topham K., Travers M.,
RA Vassiliev H., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B.,
RA Wu X., Wyman D., Young G., Zainoun J., Zembek L., Zimmer A., Zody M.,
RA Lander E.;
RT "Fusarium graminearum genome sequence.";
RL Submitted (FEB-2004) to the EMBL/GenBank/DBJ databases.
CC -1- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
CC preliminary data.
CC EMBL; AACW01000367; EAA77358.1; -; Genomic_DNA.
DR HYPOTHETICAL protein.
KW
SQ SEQUENCE 378 AA; 41574 MW; AIDF6C0C6E0650C CRC64;

Query Match 30.2%; Score 42; DB 2; Length 378;
Best Local Similarity 39.4%; Pred. No. 29;
Matches 13; Conservative 2; Mismatches 14; Indels 4; Gaps 2;

Qy 6 TXAT-QRLXNPLXXXXXGXPXLPXTXVGSNTY 37
Db 152 THATAQLQS---RTRSNFGSPRESTAMSYTTY 181

RESULT 48
Q9Y0Z9 DROME
ID Q9Y0Z9 DROME PRELIMINARY; PRT; 465 AA.
AC Q9Y0Z9;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 10-MAY-2005 (TrEMBLrel. 30, Last annotation update)
DE Tailup (CG10619-PB, isoform B).
GN Name=cup; ORFNames=CG10619;
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RA Rubin G.M., Wan K.H., Harvey D., Lewis S.E., Brokstein P., Tsang G.,
RA Agbavani A., Arcaina T., Baxter E., Blazej R.G., Butenhoff C.,
RA Champe M., Chavez C., Chew M., Doyle C.M., Farfan D.E., Frise E.,
RA Galle R., George R.A., Harris N.L., Hoskins R.A., Evans-Hoim M.,
RA Houston K.A., Hummasti S.R., Kim E., Li P., Moshrefi M., Pacleb J.M.,
RA Park S., Sequeira A., Sethi H., Snir E., Svirska R.R., Weinburg T.,
RA Celniker S.E.;
RL Submitted (APR-1999) to the EMBL/GenBank/DBJ databases.
RN [2]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=20196006; PubMed=10731132; DOI=10.1126/science.287.5461.2185;
RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Anantides P.G., Scher S., Richards S., Ashburner M., Henderson S.N.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.-H.C., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
RA Abil J.F., Agbayani A., An H.-J., Andrews-Pfannkuch C., Baldwin D.,
RA Baller R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,
RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA de Pablo B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,
RA Foeller C., Gabriellian A.E., Garg N.S., Gelbart W.M., Glasser K.,
RA Glodok A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D.A., Heiman T.J., Hernandez J.R., Houck J.,

RA Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C.,
RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Laoko P., Lei Y., Levitsky A.A., Li J.H., Li Z., Liang Y., Lin X.,
RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Mount S.M., Moy M., Murphy B., Murphy D., Muzny D.M., Nelson D.L.,
RA Nelson D.R., Nelson K.A., Nixon K., Nuskern D.R., Pacleb J.M.,
RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,
RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
RA Svirska R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
RA Wang Z.-Y., Wasserman D.A., Weinstein G.M., Weissbach J.,
RA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,
RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhou X., Zhu S., Zhu X., Smith H.O.,
RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
RT "The genome sequence of Drosophila melanogaster.";
RL Science 287:2185-2195(2000).
RN [3]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=22426065; PubMed=12537568;
RA Celniker S.E., Wheeler D.A., Kronmiller B., Carlson J.W., Halpern A.,
RA Patel S., Adams M., Champe M., Dugan S.P., Frise E., Hodgson A.,
RA George R.A., Hoskins R.A., Lavery T., Muzny D.M., Nelson C.R.,
RA Pacleb J.M., Park S., Pfeiffer B.D., Richards S., Sodergren E.J.,
RA Svirska R., Tabor P.E., Wan K., Stapleton M., Sutton G.G., Venter C.,
RA Weinstein G., Scherer S.E., Myers E.W., Gibbs R.A., Rubin G.M.;
RT "Finishing a whole-genome shotgun: release 3 of the Drosophila
melanogaster euchromatic genome sequence.";
RL Genome Biol. 3:RESEARCH0079-RESEARCH0079(2002).
RN [4]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=22426070; PubMed=12537573;
RA Celniker S.E., Bergman C.M., Kronmiller B., Carlson J.W., Svirska R.,
RA Patel S., Frise E., Wheeler D.A., Lewis S.E., Rubin G.M.,
RA Ashburner M., Celniker S.E.;
RT "The transposable elements of the Drosophila melanogaster euchromatin:
a genomic perspective.";
RL Genome Biol. 3:RESEARCH0084.1-RESEARCH0084.20(2002).
RN [5]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=22426069; PubMed=12537572;
RA Misra S., Crosby M.A., Mungall C.J., Matthews B.B., Campbell K.S.,
RA Hradecky P., Huang Y., Kaminker J.S., Millburn G.H., Prochnik S.E.,
RA Smith C.D., Tupy J.L., Whitfield E.J., Bayraktaroglu L., Berman B.P.,
RA Bettencourt B.R., Celniker S.E., de Grey A.D.N.J., Drysdale R.A.,
RA Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.Q.,
RA Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
RA Lewis S.E.;
RT "Annotation of the Drosophila melanogaster euchromatic genome: a
systematic review.";
RL Genome Biol. 3:RESEARCH0083.1-RESEARCH0083.22(2002).
RN [6]
RP NUCLEOTIDE SEQUENCE.
RG Berkeley Drosophila Genome Project;
RA Celniker S., Carlson J., Wan K., Pfeiffer B., Frise E., George R.,
RA Hoskins R., Stapleton M., Pacleb J., Park S., Svirska R., Smith E.,
RA Yu C., Rubin G.;
RT "Drosophila melanogaster release 4 sequence.";
RL Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.
RN [7]
RP NUCLEOTIDE SEQUENCE.
RG FlyBase;
RL Submitted (MAR-2005) to the EMBL/GenBank/DBJ databases.
CC -1- SUBCELLULAR LOCATION: Nuclear (by similarity).
CC -1- SIMILARITY: Contains 2 LIM zinc-binding domains.
DR EMBL; AF145674; AAD38649.1; -; mRNA.
DR EMBL; AE003660; AAN11018.1; -; Genomic_DNA.
DR HSP; P50480; IHW5
DR SW; Q9Y0Z9; 240-304.
DR FlyBase; FBGN0003896; tup.

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DR GO: 0046665; P:amnioterosa maintenance; IMP.
DR GO: 0007391; P:dorsal closure; TAS.
DR GO: 0007390; P:germ-band shortening; IMP.
DR GO: 0008258; P:head involution; NAS.
DR GO: 0007399; P:neurogenesis; TAS.
DR GO: 0007362; P:terminal region determination; IGI.
DR GO: 0008293; P:torso signaling pathway; IGI.
DR InterPro: IPR001356; Homeobox.
DR InterPro: IPR012287; Homeodomain-rel.
DR InterPro: IPR007107; LIM homeo.
DR InterPro: IPR001781; LIM_Zn_bd.
DR Pfam: PF00046; Homeobox_1.
DR Pfam: PF00412; LIM_2.
DR PRINTS: PR00024; HOMEBOX.
DR SMART: SM00389; HOX; 1.
DR SMART: SM00132; LIM; 2.
DR PROSITE: PS00027; HOMEBOX 1; UNKNOWN_1.
DR PROSITE: PS00071; HOMEBOX 2; 1.
DR PROSITE: PS00478; LIM_DOMAIN 1; 2.
DR PROSITE: PS50023; LIM_DOMAIN_2; 2.
DR DNA-binding; Developmental protein; Homeobox; LIM domain;
KW Metal-binding; Nuclear protein; Transcription;
KW Transcription regulation; Zinc.
SQ SEQUENCE 465 AA; 51798 MW; 43A8F7B7B143D036 CRC64;

Query Match 30.2%; Score 42; DB 2; Length 465;
Best Local Similarity 42.3%; Pred. No. 37;
Matches 11; Conservative 2; Mismatches 13; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNGXPXP 28
Db 371 NHTPAFQQLVNMHGYDLNGMPILP 396

RESULT 49
P2031 DROME
ID P2031 DROME PRELIMINARY; PRT; 534 AA.
AC P2031;
DT 01-MAY-1997 (TrEMBLrel. 03, Created)
DT 01-MAY-1997 (TrEMBLrel. 03, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE LIM homeobox protein.
GN Name=tup; Synonyms=isllet; ORFNames=CG10619;
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=97234720; PubMed=9115734; DOI=10.1016/S0896-6273(00)81241-6;
RA Thor S., Thomas J.B.;
RT "The Drosophila islet gene governs axon pathfinding and
RL Neuron 18:397-409(1997).
CC -!- SUBCELLULAR LOCATION: Nuclear (By similarity).
CC -!- SIMILARITY: Contains 2 LIM zinc-binding domains.
DR EMBL: U89385; AAB49892.1; -; mRNA.
DR HSSP: P50480; 1BW5.
DR SWS: P2031; 240-304.
DR FlyBase; FBgn003896; tup.
DR GO: 0046665; P:amnioterosa maintenance; IMP.
DR GO: 0007391; P:dorsal closure; TAS.
DR GO: 0007390; P:germ-band shortening; IMP.
DR GO: 0008258; P:head involution; NAS.
DR GO: 0007399; P:neurogenesis; TAS.
DR GO: 0007362; P:terminal region determination; IGI.
DR GO: 0008293; P:torso signaling pathway; IGI.
DR InterPro: IPR001356; Homeobox.
DR InterPro: IPR012287; Homeodomain-rel.
DR InterPro: IPR007107; LIM homeo.
DR InterPro: IPR001781; LIM_Zn_bd.
DR Pfam: PF00046; Homeobox; 1.
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DR Pfam: PF00412; LIM; 2.
DR PRINTS: PR00024; HOMEBOX.
DR SMART: SM00389; HOX; 1.
DR SMART: SM00132; LIM; 2.
DR PROSITE: PS00027; HOMEBOX 1; UNKNOWN_1.
DR PROSITE: PS00071; HOMEBOX 2; 1.
DR PROSITE: PS00478; LIM_DOMAIN 1; 2.
DR PROSITE: PS50023; LIM_DOMAIN_2; 2.
DR DNA-binding; Developmental protein; Homeobox; LIM domain;
KW Metal-binding; Nuclear protein; Transcription;
KW Transcription regulation; Zinc.
SQ SEQUENCE 534 AA; 58055 MW; 86FDC47639B6D7C3 CRC64;

Query Match 30.2%; Score 42; DB 2; Length 534;
Best Local Similarity 42.3%; Pred. No. 43;
Matches 11; Conservative 2; Mismatches 13; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNGXPXP 28
Db 371 NHTPAFQQLVNMHGYDLNGMPILP 396

RESULT 50
Q9VJ37 DROME
ID Q9VJ37 DROME PRELIMINARY; PRT; 534 AA.
AC Q9VJ37;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE CG10619-PA, isoform A.
GN Name=tup; ORFNames=CG10619;
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=20196006; PubMed=10731132; DOI=10.1126/science.287.5461.2185;
RA Adams M.D., Celnik S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Anantides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Vandal M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.-H.C., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
RA Abrell J.F., Agbayani A., An H.-J., Andrews-Pfankoch C., Baldwin D.,
RA Balow R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,
RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Cherry J.M., Cavley S., Dahlke C., Davenport L.B., Davies P.,
RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,
RA Fogle C., Gabriellian A.E., Garg N.S., Gelbart W.M., Glasser K.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D.A., Heiman T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C.,
RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Lasko P., Lei Y., Levitsky A.A., Li J.H., Li Z., Liang Y., Lin X.,
RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Nelson D.R., Nelson K.A., Nixon K., Nuskern D.R., Pacleb J.M.,
RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,
RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
RA Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
RA Wang Z.-Y., Wasserman D.A., Weinstein G.M., Weissbach J.,
RA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,
RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: January 4, 2006, 11:38:06 ; Search time 37 Seconds
(without alignments)
96.217 Million cell updates/sec

Title: US-09-445-517-14
Perfect score: 139
Sequence: 1 XXNTATATQRLNLFXXXXXXNGPXLPTXVGSNTY 37

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 150 summaries

Database :

PIR_80.*

1: PIR1.*

2: PIR2.*

3: PIR3.*

4: PIR4.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	116	83.5	93	1 C33542	islet amyloid poly
2	116	83.5	93	1 TCRTTA	islet amyloid poly
3	109	78.4	91	2 A36118	islet amyloid poly
4	107	77.0	37	2 S05037	insulinoma amyloid
5	107	77.0	92	2 S13116	islet amyloid prot
6	102	73.4	89	1 TCHUJA	islet amyloid poly
7	100	71.9	89	2 S22344	islet amyloid poly
8	100	71.9	89	2 A33542	islet amyloid poly
9	99	71.2	92	2 D33542	islet amyloid poly
10	87	62.6	135	2 A56855	islet amyloid poly
11	68	48.9	29	2 A61509	islet amyloid poly
12	48	34.5	125	1 TCCHRP	calcitonin gene-re
13	43	30.9	23	2 I46933	islet amyloid poly
14	43	30.9	23	2 I46934	islet amyloid poly
15	43	30.9	72	2 I37232	calcitonin gene-re
16	43	30.9	127	2 A25854	calcitonin gene-re
17	43	30.9	451	2 T15718	hypothetical prote
18	42.5	30.6	634	2 A64521	outer membrane pro
19	42	30.2	37	2 JH0709	calcitonin gene-re
20	42	30.2	128	1 TCRTTR	calcitonin gene-re
21	41.5	29.9	668	2 A71986	probable outer mem
22	41	29.5	128	2 B44173	calcitonin gene-re
23	41	29.5	134	2 A44173	calcitonin gene-re
24	40	28.8	89	2 E75101	hypothetical prote
25	40	28.8	990	2 T14756	hypothetical prote
26	39	28.1	384	2 D87599	hypothetical prote
27	39	28.1	405	2 A64388	3-hydroxy-3-methyl
28	39	28.1	833	2 A80448	probable insectici
29	39	28.1	1376	1 JQ1534	E2 glycoprotein pr

30	39	28.1	1376	1	VGIHJ2	E2 glycoprotein pr
31	39	28.1	1662	2	T18540	moA protein precu
32	38	27.3	925	2	T37475	lipoprotein recept
33	37.5	27.0	379	2	S23443	hypothetical prote
34	37.5	27.0	474	2	T31064	hypothetical prote
35	37.5	27.0	9376	2	T14593	syngomycin synth
36	37	26.6	218	2	G87324	probable secreted
37	37	26.6	299	2	F90867	probable transcrip
38	37	26.6	299	2	C85751	probable transcrip
39	37	26.6	299	2	C64882	probable transcrip
40	37	26.6	315	1	HNW4X	hemagglutinin prec
41	37	26.6	389	2	T23167	hypothetical prote
42	37	26.6	420	2	S53916	SUN4 protein precu
43	37	26.6	538	2	E96492	hypothetical prote
44	37	26.6	1162	2	JH0557	exo-alpha-stalidas
45	37	26.6	1309	2	H96850	protein T3P18.3 [i
46	36.5	26.3	175	2	S65828	probable movement
47	36.5	26.3	1026	2	A48995	paracrystalline su
48	36.5	26.3	1073	2	C87374	S-layer protein Re
49	36.5	26.3	3092	2	S46009	GTPase-activating
50	36	25.9	128	1	TCHUR	calcitonin gene-re
51	36	25.9	218	2	F70524	hypothetical prote
52	36	25.9	258	2	H81321	probable integral
53	36	25.9	265	2	I48679	neutrophil elastas
54	36	25.9	319	2	C64852	probable pseudouri
55	36	25.9	319	2	D85671	hypothetical prote
56	36	25.9	319	2	H90811	hypothetical prote
57	36	25.9	406	2	T31786	hypothetical prote
58	36	25.9	451	2	F95869	probable ABC trans
59	36	25.9	475	2	S49886	probable membrane
60	36	25.9	535	2	T32139	hypothetical prote
61	36	25.9	611	2	S76211	hypothetical prote
62	36	25.9	749	2	A95068	hypothetical prote
63	36	25.9	797	2	B97936	5-methyltetrahydro
64	36	25.9	805	2	T21957	hypothetical prote
65	36	25.9	848	2	I55498	testicular dynamin
66	36	25.9	1339	2	A55301	1,3-beta-D-glucan-
67	36	25.9	3643	2	T36410	probable polyketid
68	35.5	25.5	509	2	S36572	L1 protein - human
69	35.5	25.5	549	1	A47468	cytochrome-c oxida
70	35	25.2	182	2	F96951	uncharacterized me
71	35	25.2	200	2	C70308	hypothetical prote
72	35	25.2	241	2	T27917	hypothetical prote
73	35	25.2	354	2	H82557	hypothetical prote
74	35	25.2	431	2	E96671	hypothetical prote
75	35	25.2	461	2	A82220	hypothetical prote
76	35	25.2	467	2	F91328	probable permease
77	35	25.2	468	2	A5476	protein kinase [EC
78	35	25.2	469	2	E86075	probable permease
79	35	25.2	487	2	S40820	probable permease
80	35	25.2	499	2	E84776	hypothetical prote
81	35	25.2	556	2	A44441	B-cell antigen CD1
82	35	25.2	616	2	A46230	RNA-binding protei
83	35	25.2	688	2	D72418	DNA ligase - Therm
84	35	25.2	713	2	E75489	hypothetical prote
85	35	25.2	716	1	JC5061	macrophage-stimula
86	35	25.2	735	2	S54147	alpha adducin - ra
87	35	25.2	742	2	E89801	hypothetical prote
88	35	25.2	754	2	C81326	5-methyltetrahydro
89	35	25.2	756	2	F83704	homosysteine methyl
90	35	25.2	758	2	E84933	5-methyltetrahydro
91	35	25.2	759	2	G86781	5-methyltetrahydro
92	35	25.2	761	2	E82167	5-methyltetrahydro
93	35	25.2	762	2	C69657	cobalamin-independ
94	35	25.2	765	1	S57636	5-methyltetrahydro
95	35	25.2	765	2	T12575	5-methyltetrahydro
96	35	25.2	792	2	T50122	vesicular transpor
97	35	25.2	792	2	S03232	hypothetical prote
98	35	25.2	822	2	JC4076	dextranase [EC 3.2
99	35	25.2	915	2	S38090	hypothetical prote
100	35	25.2	1270	2	T26720	hypothetical prote
101	35	25.2	1337	2	T30291	dextranase - Strep
102	35	25.2	1616	2	S62504	conserved hypothet

A;Note: the authors obtained five independent clones for this mRNA variant, which may be
R;Roberts, A.N.; Leighton, B.; Todd, J.A.; Cockburn, D.; Schofield, P.N.; Sutton, R.; Ho
Proc. Natl. Acad. Sci. U.S.A. 86, 9662-9666, 1989
A;Title: Molecular and functional characterization of amylin, a peptide associated with
A;Reference number: A34499; MUID:90099324; PMID:2690069
A;Accession: A34499
A;Molecule type: DNA
A;Residues: 30-89 <ROB>
A;Cross-references: UNIPARC:UPI00000173497
R;Westermarck, P.; Wernstedt, C.; Wilander, E.; Hayden, D.W.; O'Brien, T.D.; Johnson, K.H
Proc. Natl. Acad. Sci. U.S.A. 84, 3881-3885, 1987
A;Title: Amyloid fibrils in human insulinoma and islets of Langerhans of the diabetic ca
A;Reference number: A26619; MUID:87231921; PMID:3035556
A;Accession: A26619
A;Molecule type: protein
A;Residues: 34-68, 'X', 70 <WES>
A;Cross-references: UNIPARC:UPI000002C9BF
R;Cooper, G.J.S.; Willis, A.C.; Clark, A.; Turner, R.C.; Sim, R.B.; Reid, K.B.M.
Proc. Natl. Acad. Sci. U.S.A. 84, 8628-8632, 1987
A;Title: Purification and characterization of a peptide from amyloid-rich pancreases of
A;Reference number: A39985; MUID:88068642; PMID:3317417
A;Accession: A39985
A;Molecule type: protein
A;Residues: 34-70 <COO>
A;Cross-references: UNIPARC:UPI000002B886
R;Nakazato, M.; Asai, J.; Miyazato, M.; Matsukura, S.; Kangawa, K.; Matsuo, H.
Regul. Pept. 31, 179-186, 1990
A;Title: Isolation and identification of islet amyloid polypeptide in normal human pancre
A;Reference number: A60061; MUID:91219694; PMID:2091067
A;Accession: A60061
A;Molecule type: protein
A;Residues: 34-70 <NAK>
A;Cross-references: UNIPARC:UPI000002B886
A;Experimental source: normal pancreas
A;Accession: B60061
A;Molecule type: protein
A;Residues: 50-70 <NA2>
A;Cross-references: UNIPARC:UPI00000173498
R;Experimental source: normal pancreas
R;Betsholtz, C.; Svensson, V.; Rorsman, F.; Engstroem, U.; Westermarck, G.T.; Wilander, E
Exp. Cell Res. 183, 484-493, 1989
A;Title: Islet amyloid polypeptide (IAPP): cDNA cloning and identification of an amyloid
A;Reference number: A60599; MUID:89356900; PMID:2670595
A;Accession: A60599
A;Status: nucleic acid sequence not shown; not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 1-89 <BET>
A;Cross-references: UNIPARC:UPI000012D0C4
R;Christmanson, L.; Rorsman, F.; Stenman, G.; Westermarck, P.; Betsholtz, C.
FEBS Lett. 267, 160-166, 1990
A;Title: The human islet amyloid polypeptide (IAPP) gene. Organization, chromosomal loca
A;Reference number: S10729; MUID:90306394; PMID:2365085
A;Accession: S10729
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-89 <CHR>
A;Cross-references: UNIPARC:UPI000012D0C4
R;van Mansfeld, A.D.M.; Mosselman, S.; Hoepfener, J.W.M.; Zandberg, J.; van Teeffelen, H
Biochim. Biophys. Acta 1087, 235-240, 1990
A;Title: Islet amyloid polypeptide: structure and upstream sequences of the IAPP gene in
A;Reference number: S13566; MUID:91027936; PMID:2223885
A;Accession: S13567
A;Status: preliminary; translation not shown
A;Molecule type: DNA
A;Residues: 1-89 <VAN>
A;Cross-references: UNIPARC:UPI000012D0C4; EMBL:X52818; NID:G32589; PIDN:CAA37002.1; PID
R;Mosselman, S.; Hoepfener, J.W.M.; Zandberg, J.; van Mansfeld, A.D.M.; Geurts van Kesse
FEBS Lett. 239, 227-232, 1988
A;Title: Islet amyloid polypeptide: identification and chromosomal localization of the h
A;Reference number: S01779; MUID:89031237; PMID:3181427
A;Accession: S01779
A;Molecule type: DNA
A;Residues: 28-89 <MO2>

A;Cross-references: UNIPARC:UPI000016A552; EMBL:X13859; NID:G32584; PIDN:CAB57803.1; PID
R;Westermarck, P.; Wernstedt, C.; Wilander, E.; Sletten, K.
Biochem. Biophys. Res. Commun. 140, 827-831, 1986
A;Title: A novel peptide in the calcitonin gene related peptide family as an amyloid fib
A;Reference number: A26385; MUID:87048863; PMID:3535798
A;Accession: A26385
A;Molecule type: protein
A;Residues: 34, 'X', 36-39, 'S', 41-52 <WE2>
A;Cross-references: UNIPARC:UPI00000173499
R;Cort, J.; Liu, Z.; Lee, G.; Harris, S.M.; Prickett, K.S.; Gaeta, L.S.L.; Andersen, N.H
Biochem. Biophys. Res. Commun. 204, 1088-1095, 1994
A;Title: beta-Structure in human amylin and two designer beta-peptides: CD and NMR spect
imers.
A;Reference number: PC2383; MUID:95071438; PMID:7980582
A;Contents: annotation; circular dichroism and NMR studies
C;Comment: This protein is a major component of the islet amyloid deposited in the pancr
ction as a hormone.
C;Genetics:
A;Gene: GDB:IAPP
A;Cross-references: GDB:120074; OMIM:147940
A;Map position: 12p12.3-12p12.1
A;Introns: 27/2
C;Superfamily: calcitonin
C;Keywords: amidated carboxyl end; amyloid; pancreatic islet; type 2 diabetes
F;1-22/Domain: signal sequence #status predicted <SIG>
F;23-33/Domain: amino-terminal propeptide #status predicted <PRO1>
F;34-70/Product: islet amyloid polypeptide #status experimental <MAT>
F;50-70/Product: islet amyloid polypeptide (17-37) #status experimental <MAT2>
F;53-62/Domain: amyloid fibril-forming #status experimental <FIB>
F;72-89/Domain: carboxyl-terminal propeptide #status predicted <PRO2>
F;35-40/Disulfide bonds: #status predicted
F;70/Modified site: amidated carboxyl end (Tyr) (amide in mature form from following gly
Query Match 73.4%; Score 102; DB 1; Length 89;
Best Local Similarity 62.9%; Pred. No. 4.6e-13;
Matches 22; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
Qy 3 NTATXATQRLXNFXLXXXXXNGPXLPTXTVGSNTY 37
Db 36 NTATCATQRLANFLVHSSNFGAILSTNVGSNTY 70
RESULT 7
S22344
islet amyloid polypeptide precursor - dog
N;Alternate names: amylin precursor; IAPP; insulinoma amyloid protein
C;Species: Canis lupus familiaris (dog)
C;Date: 22-Nov-1993 #sequence_revision 01-Dec-1995 #text_change 09-Jul-2004
C;Accession: S22344; A35476
R;Albrandt, K.; Mull, E.; Cooper, G.J.S.; Johnson, M.J.
Biochim. Biophys. Acta 1130, 97-99, 1992
A;Title: Nucleotide sequence of a cDNA for canine amylin.
A;Reference number: S22344; MUID:92182022; PMID:1543754
A;Accession: S22344
A;Molecule type: mRNA
A;Residues: 1-89 <ALB>
A;Cross-references: UNIPROT:P17716; UNIPARC:UPI000012D0C1; EMBL:X59998; NID:9870; PIDN:C
R;Jordan, K.; Murcaugh, M.P.; O'Brien, T.D.; Westermarck, P.; Betsholtz, C.; Johnson, K.H
Biochem. Biophys. Res. Commun. 169, 502-508, 1990
A;Title: Canine IAPP cDNA sequence provides important clues regarding diabetes and
A;Reference number: A35476; MUID:90290487; PMID:2192709
A;Accession: A35476
A;Molecule type: mRNA
A;Residues: 43-66, 'T', 68 <JOR>
A;Cross-references: UNIPARC:UPI000016C3DA; GB:M37720; NID:gl63960; PIDN:AAA30849.1; PID
C;Superfamily: calcitonin
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Best Local Similarity 62.9%; Pred. No. 1.2e-12;
Matches 22; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
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Db 36 NTATCATQRLANFLVRSNNLGAILLPTNVGSNTY 70

RESULT 8

A33542
islet amyloid polypeptide precursor - cat
C:Species: Felis silvestris catus (domestic cat)
C>Date: 21-Feb-1990 #sequence_revision 21-Feb-1990 #text_change 09-Jul-2004
C:Accession: A33542; A60499; B26619
R:Nishi, M.; Chan, S.J.; Nagamatsu, S.; Bell, G.I.; Steiner, D.F.
Proc. Natl. Acad. Sci. U.S.A. 86, 5738-5742, 1989
A>Title: Conservation of the sequence of islet amyloid polypeptide in five mammals is conserved
A:Reference number: A33542; MUID:89345542; PMID:2668946
A:Accession: A33542
A:Molecule type: mRNA
A:Residues: 1-89 <NIS>
A:Cross-references: UNIPROT:P12967; UNIPARC:UPI000012DOC3; GB:M25388; NID:g163861; PIDN:
B:Bertholtz, C.; Christmanson, L.; Engstroem, U.; Rorsman, F.; Jordan, K.; O'Brien, T.D.
Diabetes 39, 118-122, 1990
A>Title: Structure of cat islet amyloid polypeptide and identification of amino acid residues
A:Reference number: A60499; MUID:91006862; PMID:2210054
A:Accession: A60499
A:Status: not compared with conceptual translation
A:Molecule type: mRNA
A:Residues: 34-70 <BET>
A:Cross-references: UNIPARC:UPI000003519A
R:Westermarck, P.; Wernstedt, C.; Willander, E.; Hayden, D.W.; O'Brien, T.D.; Johnson, K.H.
Proc. Natl. Acad. Sci. U.S.A. 84, 3881-3885, 1987
A>Title: Amyloid fibrils in human insulinoma and islets of Langerhans of the diabetic cat
A:Reference number: A26619; MUID:87231921; PMID:3035556
A:Accession: B26619
A:Status: preliminary
A:Molecule type: protein
A:Residues: 34, 'X', 36-39, 'X', 41-60 <WES>
A:Cross-references: UNIPARC:UPI0000029C0
C:Superfamily: calcitonin
C:Keywords: amidated carboxyl end; amyloid; pancreas
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Query Match 71.9%; Score 100; DB 2; Length 89;

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Db 36 NTATCATQRLANFLVRSNNLGAILLPTNVGSNTY 70

RESULT 9

D33542
islet amyloid polypeptide precursor - guinea pig
C:Species: Cavia porcellus (guinea pig)
C>Date: 21-Feb-1990 #sequence_revision 04-Sep-1992 #text_change 09-Jul-2004
C:Accession: D33542
R:Nishi, M.; Chan, S.J.; Nagamatsu, S.; Bell, G.I.; Steiner, D.F.
Proc. Natl. Acad. Sci. U.S.A. 86, 5738-5742, 1989
A>Title: Conservation of the sequence of islet amyloid polypeptide in five mammals is conserved
A:Reference number: A33542; MUID:89345542; PMID:2668946
A:Accession: D33542
A:Status: preliminary
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A:Residues: 1-92 <NIS>
A:Cross-references: UNIPROT:P12966; UNIPARC:UPI000012DOC2; GB:M25387; NID:g191271; PIDN:
A>Note: the authors translated the codon CTA for residue 87 as Cys
C:Superfamily: calcitonin

Query Match 71.2%; Score 99; DB 2; Length 92;

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Matches 22; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

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Db 39 NTATCATQRLTNFLVRSNNLGAALLPTDVGNTY 73

RESULT 10

A56855
islet amyloid polypeptide precursor - chicken
N:Alternate names: IAPP
C:Species: Gallus gallus (chicken)
C>Date: 11-Aug-1995 #sequence_revision 11-Aug-1995 #text_change 09-Jul-2004
C:Accession: A56855
R:Fan, L.; Westermarck, G.; Chan, S.J.; Steimer, D.F.
Mol. Endocrinol. 8, 713-721, 1994
A>Title: Altered gene structure and tissue expression of islet amyloid polypeptide in the chicken
A:Reference number: A56855; MUID:95021303; PMID:7935487
A:Accession: A56855
A:Status: preliminary
A:Molecule type: mRNA; DNA
A:Residues: 1-135 <FAN>
A:Cross-references: UNIPROT:Q90743; UNIPARC:UPI00000FDOB7; GB:L16955; NID:g289789; PIDN:
C:Superfamily: calcitonin
C:Keywords: hormone

Query Match 62.6%; Score 87; DB 2; Length 135;

Best Local Similarity 54.3%; Pred. No. 7.8e-10;
Matches 19; Conservative 1; Mismatches 15; Indels 0; Gaps 0;

Qy 3 NTATXATQRLANFLXXXXXNKGXPLPTXVGSNTY 37

Db 82 NTATCVTQRLADFLVRSNNIGATYSPTNVGSNTY 116

RESULT 11

A61509
islet amyloid polypeptide - cougar (fragment)
C:Species: Felis concolor (cougar)
C>Date: 19-Mar-1997 #sequence_revision 26-Feb-1998 #text_change 11-May-2000
C:Accession: A61509
R:Johnson, K.H.; Wernstedt, C.; O'Brien, T.D.; Westermarck, P.
Comp. Biochem. Physiol. B 98, 115-119, 1991
A>Title: Amyloid in the pancreatic islets of the cougar (Felis concolor) is derived from
A:Reference number: A61509; MUID:91284578; PMID:2060275
A:Accession: A61509
A:Molecule type: protein
A:Residues: 1-29 <JOH>
A:Cross-references: UNIPARC:UPI000017660F
C:Superfamily: calcitonin

Query Match 48.9%; Score 68; DB 2; Length 29;

Best Local Similarity 68.0%; Pred. No. 9.2e-07;
Matches 17; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 3 NTATXATQRLANFLXXXXXNKGXPL 27

Db 3 NTATXATQRLANFLVRSNNLGAILL 27

RESULT 12

TCCHRP
calcitonin gene-related peptide precursor - chicken
C:Species: Gallus gallus (chicken)
C>Date: 30-Jun-1991 #sequence_revision 30-Jun-1991 #text_change 09-Jul-2004
C:Accession: S00154; I50183; A24855
R:Minvielle, S.; Cressent, M.; Delahaye, M.C.; Segond, N.; Milhaud, G.; Jullienne, A.; M.
FEBS Lett. 223, 63-68, 1987
A>Title: Sequence and expression of the chicken calcitonin gene.
A:Reference number: S00153; MUID:88030046; PMID:3666142
A:Accession: S00154
A:Molecule type: DNA
A:Residues: 1-125 <MIN>
A:Cross-references: UNIPROT:P10286; UNIPARC:UPI0000126E2F; EMBL:X06311
A>Note: the sequences of codons 31-33 and 34-38 are interchanged in this reference; the
A:Note: the authors translated the codon GAC for residue 56 as Glu
R:Laamoies, F.; Jullienne, A.; Day, F.; Minvielle, S.; Milhaud, G.; Moukhtar, M.S.
EMBO J. 4, 2603-2607, 1985

Query Match 71.2%; Score 99; DB 2; Length 92;

Best Local Similarity 62.9%; Pred. No. 1.9e-12;
Matches 22; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 3 NTATXATQRLANFLXXXXXNKGXPLPTXVGSNTY 37

Db 39 NTATCATQRLTNFLVRSNNLGAALLPTDVGNTY 73

A;Title: Elucidation of the nucleotide sequence of chicken calcitonin mRNA: direct evidence
A;Reference number: A25725; MUID:86030240; PMID:4054101
A;Contents: annotation
R;Minvielle, S.; Cressent, M.; Lasmoles, F.; Jullienne, A.; Milhaud, G.; Moukhtar, M.S.
FEBS Lett. 203, 7-10, 1986
A;Title: Isolation and partial characterization of the calcitonin gene in a lower vertebrate
A;Reference number: 150183; MUID:86248126; PMID:3487468
A;Accession: 150183
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 74-125 <M12>
A;Cross-references: UNIPARC:UPI00001712BC; GB:D00007; NID:g222801; PIDN:BAA00006.1; PID:
C;Comment: The calcitonin gene codes for two mRNA species by tissue-specific alternative
ribosomal nervous system codes for calcitonin gene-related peptide.
C;Genetics:
A;Introns: 29/2; 73/2
C;Superfamily: calcitonin
C;Keywords: alternative splicing; amidated carboxyl end; neuropeptide
F;80-116/Product: calcitonin gene-related peptide #status predicted <MAT>
F;81-86/Disulfide bonds: #status predicted
F;116/Modified site: amidated carboxyl end (phe) (amide in mature form from following gl
Query Match 34.5%; Score 48; DB 1; Length 125;
Best Local Similarity 37.1%; Pred. No. 0.05;
Matches 13; Conservative 2; Mismatches 20; Indels 0; Gaps 0;
Qy 3 NTATXATQRLXNFXLXXXXXNGPXLPTXVGSNTY 37
||||| :||| :
Db 82 NTATCVTHRLADFLSRGSGVGKNNFVPTNVGSKAF 116
||||| :||| :
RESULT 13
I46933
islet amyloid polypeptide - European hare (fragment)
C;Species: Lepus capensis europaeus (European hare)
C;Date: 21-Feb-1997 #sequence_revision 21-Feb-1997 #text_change 09-Jul-2004
C;Accession: I46933
R;Christianson, L.; Betsholtz, C.; Leckstrom, A.; Engstrom, U.; Cortie, C.; Johnson, K.H.
Diabetologia 36, 183-188, 1993
A;Title: Islet amyloid polypeptide in the rabbit and European hare: studies on its relation
A;Reference number: I46933; MUID:93215963; PMID:8462765
A;Accession: I46933
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 1-23 <CHR>
A;Cross-references: UNIPROT:Q07333; UNIPARC:UPI000012D0C5; GB:S57802; NID:g299056; PIDN:
C;Superfamily: calcitonin
Query Match 30.9%; Score 43; DB 2; Length 23;
Best Local Similarity 56.2%; Pred. No. 0.076; Mismatches 0; Gaps 0;
Matches 9; Conservative 0; Indels 7; Indels 0;
Qy 9 TQRLXNFXLXXXXXNGK 24
||||| :||| :
Db 1 TQRLANFLIHSSNNFG 16
||||| :||| :
RESULT 14
I46934
islet amyloid polypeptide - rabbit (fragment)
C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 14-Feb-1997 #sequence_revision 14-Feb-1997 #text_change 09-Jul-2004
C;Accession: I46934
R;Christianson, L.; Betsholtz, C.; Leckstrom, A.; Engstrom, U.; Cortie, C.; Johnson, K.H.
Diabetologia 36, 183-188, 1993
A;Title: Islet amyloid polypeptide in the rabbit and European hare: studies on its relation
A;Reference number: I46933; MUID:93215963; PMID:8462765
A;Accession: I46934
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 1-23 <CHR>
A;Cross-references: UNIPROT:Q07334; UNIPARC:UPI000016C61B; GB:S57804; NID:g299058; PIDN:
C;Superfamily: calcitonin

Query Match 30.9%; Score 43; DB 2; Length 23;
Best Local Similarity 56.2%; Pred. No. 0.076; Mismatches 0; Gaps 0;
Matches 9; Conservative 0; Indels 7; Indels 0;

Qy 9 TQRLXNFXLXXXXXNGK 24
||||| :||| :
Db 1 TQRLANFLIHSSNNFG 16
||||| :||| :

RESULT 15

I37232

calcitonin gene-related peptide 2 - human (fragment)

C;Species: Homo sapiens (man)

C;Date: 06-Sep-1996 #sequence_revision 06-Sep-1996 #text_change 09-Jul-2004

R;Steenbergh, P.H.; Hoppener, J.W.; Zandberg, J.; Lips, C.J.; Jansz, H.S.

FEBS Lett. 183, 403-407, 1985

A;Title: A second human calcitonin/CGRP gene.

A;Reference number: I37232; MUID:85180007; PMID:2985435

A;Accession: I37232

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: mRNA

A;Residues: 1-72 <RES>

A;Cross-references: UNIPROT:P10092; UNIPARC:UPI000016A6C1; EMBL:X02404; NID:g299933; PIDN:

C;Superfamily: calcitonin

Query Match 30.9%; Score 43; DB 2; Length 72;
Best Local Similarity 34.3%; Pred. No. 0.27;
Matches 12; Conservative 1; Mismatches 22; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNGPXLPTXVGSNTY 37

||||| :||| :
Db 29 NTATCVTHRLAGLLSRGSGMWKSNFVPTNVGSKAF 63||||| :||| :
RESULT 16

A25864

calcitonin gene-related peptide beta precursor - human

N;Alternate names: calcitonin gene-related peptide II

C;Species: Homo sapiens (man)

C;Date: 30-Jun-1988 #sequence_revision 30-Jun-1988 #text_change 09-Jul-2004

C;Accession: A25864; JH0620; B26142; A34565

R;Steenbergh, P.H.; Hoppener, J.W.M.; Zandberg, J.; Visser, A.; Lips, C.J.M.; Jansz, H.

FEBS Lett. 209, 97-103, 1986

A;Title: Structure and expression of the human calcitonin/CGRP genes.

A;Reference number: A25864; MUID:87105923; PMID:3492393

A;Accession: A25864

A;Molecule type: DNA

A;Residues: 1-127 <STE>

A;Cross-references: UNIPROT:P10092; UNIPARC:UPI0000126E36

R;Kitamura, K.; Kangawa, K.; Kawamoto, M.; Ichiki, Y.; Matsuo, H.; Eto, T.

Biochem. Biophys. Res. Commun. 185, 134-141, 1992

A;Title: Isolation and characterization of peptides which act on rat platelets, from a p

A;Reference number: JH0618; MUID:92287083; PMID:1318039

A;Accession: JH0620

A;Molecule type: protein

A;Residues: 82,'X',84-87,'X',89-104 <KIT>

A;Cross-references: UNIPARC:UPI0000176610

A;Experimental source: pheochromocytoma

R;Petermann, J.B.; Born, W.; Chang, J.Y.; Fischer, J.A.

J. Biol. Chem. 262, 542-545, 1987

A;Title: Identification in the human central nervous system, pituitary, and thyroid of a

A;Reference number: A92637; MUID:87109142; PMID:3492492

A;Accession: B26142

A;Molecule type: protein

A;Residues: 82,'X',84-87,'X',89-91,'X',93-98,'X',100-105,'X',107-109 <PET>

A;Cross-references: UNIPARC:UPI0000176611

R;Wimalawansa, S.J.; Morris, H.R.; Etienne, A.; Blench, I.; Panico, M.; MacIntyre, I.

Biochem. Biophys. Res. Commun. 167, 993-1000, 1990

A;Title: Isolation, purification and characterization of beta-hCGRP from human spinal

A;Reference number: A34565; MUID:90211348; PMID:2322288

A;Accession: A34565

A:Molecule type: protein
A:Residues: 82-86;104-117 <WIM>
A:Cross-references: UNIPARC:UPI0000176612; UNIPARC:UPI0000176613
C:Comment: Calcitonin gene-related peptide II peptide is a potent vasorelaxant.
C:Genetics:
A:Gene: GDB:CALCB; CALC2
A:Cross-references: GDB:120572; OMIM:114160
A:Map position: 11p15.2-11p15.1
C:Superfamily: calcitonin
C:Keywords: amidated carboxyl end; neuropeptide
F:82-118/Product: calcitonin gene-related peptide beta #status experimental <MAT>
F:83-88/Disulfide bonds: #status experimental
F:118/Modified site: amidated carboxyl end (Phe) (amide in mature form from following gl

Query Match 30.9%; Score 43; DB 2; Length 127;
Best Local Similarity 34.3%; Pred. No. 0.52;
Matches 12; Conservative 1; Mismatches 22; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNLFXXXXXNGXPKLPXTXVGSNTY 37
|||||
Db 84 NTATCVTHRLAGLLSRSGGMVKSFNFTNVGSKAF 118
|||||

RESULT 17
T15718
hypothetical protein C30G12.1 - Caenorhabditis elegans
C:Species: Caenorhabditis elegans
C:Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 20-Sep-1999
C:Accession: T15718
R:Latrelle, P.
submitted to the EMBL Data Library, July 1995
A:Description: The sequence of C. elegans cosmid C30G12.
A:Reference number: Z18393
A:Accession: T15718
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-451 <LAT>
A:Cross-references: UNIPARC:UPI0000179C77; EMBL:U21319; NID:G687832; PID:G687833; PIDN:A
A:Experimental source: strain Bristol N2
C:Genetics:
A:Gene: CESP:C30G12.1
A:Introns: 37/3; 71/2; 107/3; 153/2; 205/1; 289/1; 376/3

Query Match 30.9%; Score 43; DB 2; Length 451;
Best Local Similarity 35.5%; Pred. No. 2.2;
Matches 11; Conservative 1; Mismatches 19; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNLFXXXXXNGXPKLPXTXVG 33
|||||
Db 371 NVATTTTFLPLRFLTPAAPNPPLPSTRVG 401
|||||

RESULT 18
A64521
outer membrane protein - Helicobacter pylori (strain 26695)
C:Species: Helicobacter pylori
C:Date: 09-Aug-1997 #sequence_revision 09-Aug-1997 #text_change 09-Jul-2004
C:Accession: A64521
R:Tomb, J.F.; White, O.; Kerlavage, A.R.; Clayton, R.A.; Sutton, G.G.; Fleischmann, R.D.
Pecerson, S.; Loftus, B.; Richardson, D.; Dodson, R.; Khalak, H.G.; Glodek, A.; McKen
son, J.D.; Kelley, J.M.; Cotton, M.D.; Weidman, J.M.; Fujii, C.; Bowman, C.; Watthey, L.
Nature 388, 539-547, 1997
A:Authors: Wallin, E.; Hayes, W.S.; Borodovsky, M.; Karpk, P.D.; Smith, H.O.; Fraser, C.
A:Title: The complete genome sequence of the gastric pathogen Helicobacter pylori.
A:Reference number: A64520; MUID:97394467; PMID:9252185
A:Accession: A64521
A:Status: preliminary; nucleic acid sequence not shown; translation not shown
A:Molecule type: DNA
A:Residues: 1-634 <TOM>
A:Cross-references: UNIPROT:Q9ZN51; UNIPARC:UPI0000165585; GB:AE000511; TIGR:HP0009

Query Match 30.6%; Score 42.5; DB 2; Length 634;
Best Local Similarity 37.5%; Pred. No. 4;

Matches 12; Conservative 3; Mismatches 16; Indels 1; Gaps 1;

Qy 6 TXATQRLXNLFXXXXXNGXPKLPXTXVGSNTY 37
| | | | |
Db 306 TIPKQFTNYL-AACRNGGGTLPDAGVTSNTW 336
| | | | |

RESULT 19
JH0709
calcitonin gene-related peptide - sheep
C:Species: Ovis orientalis aries, Ovis ammon aries (domestic sheep)
C:Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 09-Jul-2004
C:Accession: JH0709
R:Miyata, A.; Jiang, L.; Minamino, N.; Arimura, A.
Biochem. Biophys. Res. Commun. 187, 1474-1479, 1992
A:Title: Identification of calcitonin gene related peptide in ovine hypothalamic extract
A:Reference number: JH0709; MUID:93038624; PMID:1417824
A:Accession: JH0709
A:Molecule type: protein
A:Residues: 1-37 <MIY>
A:Cross-references: UNIPROT:P30881; UNIPARC:UPI0000035153
A:Experimental source: hypothalamus
C:Comment: This protein has adenylate cyclase stimulating activity.
C:Superfamily: calcitonin
C:Keywords: amidated carboxyl end; neuropeptide
F:37/Modified site: amidated carboxyl end (Phe) #status experimental

Query Match 30.2%; Score 42; DB 2; Length 37;
Best Local Similarity 34.3%; Pred. No. 0.21;
Matches 12; Conservative 1; Mismatches 22; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNLFXXXXXNGXPKLPXTXVGSNTY 37
|||||
Db 3 NTATCVTHRLAGLLSRSGGVVKSFNFTNVGSOAF 37
|||||

RESULT 20
TCRTR
calcitonin gene-related peptide precursor - rat
C:Species: Rattus norvegicus (Norway rat)
C:Date: 19-Feb-1984 #sequence_revision 19-Feb-1984 #text_change 09-Jul-2004
C:Accession: A01524; B22949
R:Amara, S.G.; Jonas, V.; Rosenfeld, M.G.; Ong, E.S.; Evans, R.M.
Nature 298, 240-244, 1982
A:Title: Alternative RNA processing in calcitonin gene expression generates mRNAs encodi
A:Reference number: A01524; MUID:82220111; PMID:6283379
A:Accession: A01524
A:Molecule type: mRNA
A:Residues: 1-128 <AMA>
A:Cross-references: UNIPROT:P01256; UNIPARC:UPI00001708AA; GB:L29188; GB:J00714; GB:N000
R:Jonas, V.; Lin, C.R.; Kawashima, E.; Semon, D.; Swanson, L.W.; Meirmod, J.J.; Evans, R.
Proc. Natl. Acad. Sci. U.S.A. 82, 1994-1998, 1985
A:Title: Alternative RNA processing events in human calcitonin/calcitonin gene-related p
A:Reference number: A94030; MUID:85166259; PMID:3872459
A:Accession: B22949
A:Molecule type: mRNA
A:Residues: 1-39, 'A', 'L', '50-67, 70-128 <JON>
A:Cross-references: UNIPARC:UPI0000136E33
C:Superfamily: calcitonin
C:Keywords: alternative splicing; amidated carboxyl end; neuropeptide
F:1-25/Domain: signal sequence #status predicted <SIG>
F:83-119/Product: calcitonin gene-related peptide #status predicted <MAT>
F:84-89/Disulfide bonds: #status predicted
F:119/Modified site: amidated carboxyl end (Phe) (amide in mature form from following gl

Query Match 30.2%; Score 42; DB 1; Length 128;
Best Local Similarity 34.3%; Pred. No. 0.83;
Matches 12; Conservative 1; Mismatches 22; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNLFXXXXXNGXPKLPXTXVGSNTY 37
|||||
Db 85 NTATCVTHRLAGLLSRSGGVVKSFNFTNVGSEAF 119
|||||

C64882

Probable transcription regulator ycjZ - Escherichia coli (strain K-12)
C;Species: Escherichia coli
C;Date: 12-Sep-1997 #sequence_revision 17-Sep-1997 #text_change 09-Jul-2004
C;Accession: C64882
R;Blattner, F.R.; Plunkett III, G.; Bloch, C.A.; Perna, N.T.; Burland, V.; Riley, M.; Cohen, A.; Rose, D.J.; Mau, B.; Shao, Y.
Science 277, 1453-1462, 1997
A;Title: The complete genome sequence of Escherichia coli K-12.
A;Reference number: A64720; MUID:97426617; PMID:9278503
A;Accession: C64882
A;Status: preliminary; nucleic acid sequence not shown; translation not shown
A;Molecule type: DNA
A;Residues: 1-299 <BLAT>
A;Cross-references: UNIPROT:P77333; UNIPARC:UPI000013A5EA; GB:AE000231; GB:U00096; NID:9278503
A;Experimental source: strain K-12, substrain MG1655
C;Genetics:
A;Gene: ycjZ
C;Superfamily: hypothetical protein b1328
C;Keywords: DNA binding; transcription regulation
F;20-50/Region: regulatory protein lyxR motif

Query Match 26.6%; Score 37; DB 2; Length 299;
Best Local Similarity 50.0%; Pred. No. 22;
Matches 7; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy 24 GPXLPXTXVGSNTY 37
Db 161 GPDIPMAIVGSPDY 174
|||:|:|:|

RESULT 40

HN24X
hemagglutinin precursor - vaccinia virus (strain Copenhagen)
N;Alternate names: A56R protein
C;Species: vaccinia virus
A;Note: host Homo sapiens (man)
C;Date: 31-Mar-1991 #sequence_revision 31-Mar-1991 #text_change 09-Jul-2004
C;Accession: D42523
R;Goebel, S.J.; Johnson, G.P.; Perkus, M.E.; Davis, S.W.; Winslow, J.P.; Paoletti, E.
Virology 179, 517-563, 1990
A;Title: Appendix to "The complete DNA sequence of vaccinia virus".
A;Reference number: A42501
A;Accession: D42523
A;Molecule type: DNA
A;Residues: 1-315 <GOS>
A;Cross-references: UNIPROT:P20978; UNIPARC:UPI000012C587; GB:M35027; NID:g335317; PIDN:Virology 179, 517-563, 1990
A;Experimental source: strain Copenhagen
R;Goebel, S.J.; Johnson, G.P.; Perkus, M.E.; Davis, S.W.; Winslow, J.P.; Paoletti, E.
Virology 179, 247-266, 1990
A;Title: The complete DNA sequence of vaccinia virus.
A;Reference number: A42531; MUID:91021027; PMID:2219722
A;Contents: annotation; possible protein-coding frames
A;Note: neither amino acid nor nucleotide sequence is given
C;Superfamily: vaccinia virus hemagglutinin; immunoglobulin homology
C;Keywords: glycoprotein; hemagglutinin; late protein; transmembrane protein
F;1-16/Domain: signal sequence #status predicted <SIG>
F;17-315/Product: hemagglutinin #status predicted <HEG>
F;27-105/Domain: immunoglobulin homology <IMM>
F;280-302/Domain: transmembrane #status predicted <TM>
F;303-315/Domain: intracellular #status predicted <INT>
F;37,69,112,161,254/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 26.6%; Score 37; DB 1; Length 315;
Best Local Similarity 46.7%; Pred. No. 23;
Matches 7; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 22 NXGPXLPXTXVGSNT 36
Db 252 NDNDTVPSTTVGSST 266
|:|:|:|

RESULT 41

T23167

hypothetical protein K01C8.2 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T23167
R;Sims, M.
submitted to the EMBL Data Library, April 1995
A;Reference number: Z19702
A;Accession: T23167
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-389 <WIL>
A;Cross-references: UNIPROT:Q21081; UNIPARC:UPI0000080155; EMBL:Z49068; PIDN:CAA88855.1;
A;Experimental source: clone K01C8
C;Genetics:
A;Gene: CESP:K01C8.2
A;Map position: 2
A;Introns: 54/2; 146/3; 208/3; 283/1; 379/3

Query Match 26.6%; Score 37; DB 2; Length 389;
Best Local Similarity 60.0%; Pred. No. 30;
Matches 9; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 22 NXGPXLPXTXVGSNT 36
Db 35 NGGTNLFTSVGSNT 49
|:|:|:|

RESULT 42

S53916
SUN4 protein precursor - Yeast (Saccharomyces cerevisiae)
N;Alternate names: protein N2411; protein YNL066w; protein YNL1612
C;Species: Saccharomyces cerevisiae
C;Date: 08-Jul-1995 #sequence_revision 01-Sep-1995 #text_change 09-Jul-2004
C;Accession: S53916; S58712; S62994; S62998; S63945
R;Poehlmann, R.; Philippsen, P.
submitted to the EMBL Data Library, April 1995
A;Reference number: S53896
A;Accession: S53916
A;Molecule type: DNA
A;Residues: 1-420 <POB>
A;Cross-references: UNIPROT:P53616; UNIPARC:UPI000013621B; EMBL:X86470; NID:g791101; PIDR;Bergez, P.; Doignon, F.; Crouzet, M.
Yeast 11, 967-974, 1995
A;Title: The sequence of a 44 420 bp fragment located on the left arm of chromosome XIV
A;Reference number: S58711; MUID:96021608; PMID:8533472
A;Accession: S58712
A;Status: nucleic acid sequence not shown; translation not shown
A;Molecule type: DNA
A;Residues: 1-420 <BER>
A;Cross-references: UNIPARC:UPI000013621B; EMBL:U12141; NID:gl314216; PIDN:AAA99645.1; PR;Bergez, P.; Doignon, F.; Crouzet, M.
submitted to the Protein Sequence Database, April 1996
A;Reference number: S62975
A;Accession: S62994
A;Molecule type: DNA
A;Residues: 1-420 <BEF>
A;Cross-references: UNIPARC:UPI000013621B; EMBL:Z71342; NID:gl301944; PID:gl301945; MIPSR;Poehlmann, R.; Philippsen, P.
submitted to the Protein Sequence Database, April 1996
A;Reference number: S62997
A;Accession: S62998
A;Molecule type: DNA
A;Residues: 1-420 <POW>
A;Cross-references: UNIPARC:UPI000013621B; EMBL:Z71342; NID:gl301944; PID:gl301945; MIPSR;Poehlmann, R.; Philippsen, P.
Yeast 12, 391-402, 1996
A;Title: Sequencing a cosmid clone of Saccharomyces cerevisiae chromosome XIV reveals 12
A;Reference number: S63925; MUID:96267764; PMID:8701611
A;Accession: S63945

QY 3 NTATXATQRLXNLFXXXXXXXXXGXPXLPXTXVGSNT 36
 DB 140 NPAGHLQRLTS-----TGRGTMTLPRTNSGSST 168

RESULT 47
 A48995
 paracrystalline surface layer protein RsaA - Caulobacter crescentus
 C:Species: Caulobacter crescentus
 C>Date: 19-Dec-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
 C:Accession: A48995
 R:Gilchrist, A.; Fisher, J.A.; Smit, J.
 Can. J. Microbiol. 38, 193-202, 1992
 A:Title: Nucleotide sequence analysis of the gene encoding the Caulobacter crescentus pa
 A:Reference number: A48995; MUID:93007489; PMID:1393820
 A:Accession: A48995
 A:Status: preliminary
 A:Molecule type: nucleic acid
 A:Residues: 1-1026 <GIL>
 A:Cross-references: UNIPROT:P35828; UNIPARC:UPI000005415D; GB:AF062345; GB:M22663; GB:MG
 A:Experimental source: CB15A, ATCC 19089
 A:Note: sequence inconsistent with the nucleotide translation
 A:Note: sequence extracted from NCBI backbone (NCBIN:116173, NCBIP:116174)

Query Match 26.3%; Score 36.5; DB 2; Length 1026;
 Best Local Similarity 31.6%; Pred. No. 1.1e+02;
 Matches 12; Conservative 2; Mismatches 19; Indels 5; Gaps 1;

QY 4 TATXATQRLXNLFXXXXXXXXXGXPXLPXTXVGSNT 36
 DB 361 TATTAQAQANNVAVDGGANVTAVTGTGTTTGANS 398

RESULT 48
 C87374
 S-layer protein RsaA [imported] - Caulobacter crescentus
 C:Species: Caulobacter crescentus
 C>Date: 20-Apr-2001 #sequence_revision 20-Apr-2001 #text_change 20-Apr-2001
 C:Accession: C87374
 R:Nierman, W.C.; Feldblyum, T.V.; Paulsen, I.T.; Nelson, K.E.; Eisen, J.; Heidelberg, J.
 B.; Laub, M.T.; DeBoy, R.T.; Dodson, R.J.; Durkin, A.S.; Gwinn, M.L.; Haft, D.H.; Kolon
 n, J.; Ermolaeva, M.; White, O.; Salzberg, S.L.; Shapiro, L.; Venter, J.C.; Fraser, C.M.
 Proc. Natl. Acad. Sci. U.S.A. 98, 4136-4141, 2001
 A:Title: Complete Genome Sequence of Caulobacter crescentus.
 A:Reference number: A87249; MUID:21173698; PMID:11259647
 A:Accession: C87374
 A:Status: preliminary
 A:Molecule type: DNA
 A:Residues: 1-1073 <STO>
 A:Cross-references: UNIPARC:UPI0000165C01; GB:AE005673; NID:gl3422297; PIDN:AAK22991.1;
 C:Genetics:
 A:Gene: CC1007

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 Matches 12; Conservative 2; Mismatches 19; Indels 5; Gaps 1;

QY 4 TATXATQRLXNLFXXXXXXXXXGXPXLPXTXVGSNT 36
 DB 408 TATTAQAQANNVAVDGGANVTAVTGTGTTTGANS 445

RESULT 49
 S46009
 GTPase-activating protein IRA1 - Yeast (Saccharomyces cerevisiae)
 N:Alternate names: protein YBR1016; protein YBR140C
 C:Species: Saccharomyces cerevisiae
 C>Date: 26-Aug-1994 #sequence_revision 09-Sep-1994 #text_change 09-Jul-2004
 C:Accession: S46009; S46582; A46619; A30135
 R:Becam, A.M.; Herbert, C.J.; Nasr, F.; Slonimski, P.P.; Zagulski, M.
 submitted to the Protein Sequence Database, August 1994
 A:Reference number: S45995

A:Accession: S46009
 A:Molecule type: DNA
 A:Residues: 1-3092 <BEC>
 A:Cross-references: UNIPROT:P18963; UNIPARC:UPI000012D974; EMBL:Z36009; NID:G536437; PID
 R:Becam, A.M.; Cullin, C.; Grzybowska, E.; Lacroute, F.; Nasr, F.; Ozier-Kalogeropoulos,
 Yeast 10(Suppl.A), S1-S11, 1994
 A:Title: The sequence of 29.7kb from the right arm of chromosome II reveals 13 complete
 A:Reference number: S46569; MUID:94378717; PMID:8091856
 A:Accession: S46582
 A:Molecule type: DNA
 A:Residues: 2768-3092 <BE2>
 A:Cross-references: UNIPARC:UPI0000168A27; EMBL:X75891; NID:G496856; PIDN:CAA53498.1; PI
 R:Zagulski, M.; Becam, A.M.; Grzybowska, E.; Lacroute, F.; Migdalski, A.; Slonimski, P.P
 Yeast 10, 1227-1234, 1994
 A:Title: The sequence of 12.5 kb from the right arm of chromosome II predicts a new N-te
 A:Reference number: S46619; MUID:95274325; PMID:7754712
 A:Accession: S46619
 A:Status: nucleic acid sequence not shown; not compared with conceptual translation
 A:Molecule type: DNA
 A:Residues: 1-312 <ZAG>
 A:Cross-references: UNIPARC:UPI00001764E1
 R:Experimental source: strain S288C
 R:Tanaka, K.; Matsumoto, K.; Toh-e, A.
 Mol. Cell. Biol. 9, 757-768, 1989
 A:Title: IRA1, an inhibitory regulator of the RAS-cyclic AMP pathway in Saccharomyces ce
 A:Reference number: A30135; MUID:89219070; PMID:2540426
 A:Accession: A30135
 A:Molecule type: DNA
 A:Residues: 155-360, 'G', 362-3092 <TAN>
 A:Cross-references: UNIPARC:UPI0000168C89; EMBL:M24378; NID:G295615; PIDN:AAA34709.1; PI
 C:Genetics:
 A:Gene: SGD: IRA1; PPDI
 A:Cross-references: SGD:S0000344; MIPS:YBR140c
 A:Map position: 2R
 C:Superfamily: regulatory protein IRA2; ras-specific GAP catalytic domain homology
 C:Keywords: phosphoprotein; transmembrane protein
 F:93-109/Domain: transmembrane #status predicted <TM1>
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 F:571-587/Domain: transmembrane #status predicted <TM4>
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 F:2326-2344/Domain: transmembrane #status predicted <TM13>
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 F:2577-2593/Domain: transmembrane #status predicted <TM15>
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 DB 2631 ATFAQKL-NFISGFSQEKGRVLPNFAASS 2659

RESULT 50
 TCHUR
 calcitonin gene-related peptide alpha precursor [validated] - human

N:Alternate names: calcitonin gene-related peptide I; CGRP-I
C:Species: Homo sapiens (man)
C:Date: 30-Sep-1987 #sequence revision 02-Jul-1996 #text_change 09-Jul-2004
A:Accession: S07644; A22949; I55536; J00005; S10813; A26142; JH0619; I52204; I84
R:Broad, P.M.; Symes, A.J.; Thakker, R.V.; Craig, R.K.
Nucleic Acids Res. 17, 6999-7011, 1989
A:Title: Structure and methylation of the human calcitonin/alpha-CGRP gene.
A:Reference number: S07643; MUID:89386053; PMID:2571128
A:Accession: S07644
A:Molecule type: DNA
A:Residues: 1-128 <BRO>
A:Cross-references: UNIPARC:UPI0000126E30; EMBL:X15943; NID:g29613; PIDN
A:Note: the authors translated the codon CAG for residue 19 as Glu
R:Jonas, V.; Lin, C.R.; Kawashima, E.; Semon, D.; Swanson, L.W.; Mermod, J.J.; Evans, R.
Proc. Natl. Acad. Sci. U.S.A. 82, 1994-1998, 1985
A:Title: Alternative RNA processing events in human calcitonin/calcitonin gene-related p
A:Reference number: A94030; MUID:85166259; PMID:3872459
A:Accession: A22949
A:Molecule type: mRNA
A:Residues: 1-128 <JON>
A:Cross-references: UNIPARC:UPI0000126E30; GB:M12667; NID:g179825; PIDN:AAA51914.1; PID:
R:Edbrooke, M.R.; Parker, D.; McVey, J.H.; Riley, J.H.; Sorenson, G.D.; Pettengill, O.S.
EMBO J. 4, 715-724, 1985
A:Title: Expression of the human calcitonin/CGRP gene in lung and thyroid carcinoma.
A:Reference number: A91034; MUID:85230541; PMID:2408883
A:Accession: B22716
A:Molecule type: mRNA
A:Residues: 'V', 50-75, 'S', 76-128 <EDB>
A:Cross-references: UNIPARC:UPI000017349A
R:Steenbergh, P.H.; Hoppener, J.W.; Zandberg, J.; Van de Ven, W.J.; Jansz, H.S.; Lips, C
J. Clin. Endocrinol. Metab. 59, 358-360, 1984
A:Title: Calcitonin gene related peptide coding sequence is conserved in the human genom
A:Reference number: I55536; MUID:84240176; PMID:6610687
A:Accession: I55536
A>Status: translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 77-128 <RES>
A:Cross-references: UNIPARC:UPI000016A651; GB:M28637; NID:g180467; PIDN:AAA52012.1; PID:
R:Morris, H.R.; Panico, M.; Etienne, T.; Tippins, J.; Girgis, S.I.; Macintyre, I.
Nature 308, 746-748, 1984
A:Title: Isolation and characterization of human calcitonin gene-related peptide.
A:Reference number: A93329; MUID:84191466; PMID:6609312
A:Accession: J00005
A:Molecule type: protein
A:Residues: 83-119 <MOR>
A:Cross-references: UNIPARC:UPI000002B78E
A:Note: this peptide was detected in medullary thyroid carcinoma tissue and in plasma
R:Zaidi, M.; Brain, S.D.; Tippins, J.R.; di Marzo, V.; Moonga, B.S.; Chambers, T.J.; Mor
Biochem. J. 269, 775-780, 1990
A:Title: Structure-activity relationship of human calcitonin-gene-related peptide.
A:Reference number: S10813; MUID:90358780; PMID:2390067
A:Accession: S10813
A:Molecule type: protein
A:Residues: 83-99, 'A', 101-119 <ZAI>
A:Cross-references: UNIPARC:UPI000017349B
R:Petermann, J.B.; Born, W.; Chang, J.Y.; Fischer, J.A.
J. Biol. Chem. 262, 542-545, 1987
A:Title: Identification in the human central nervous system, pituitary, and thyroid of a
A:Reference number: A92637; MUID:87109142; PMID:3492492
A:Accession: A26142
A:Molecule type: protein
A:Residues: 83-88, 'X', 90-101, 'X', 103-111, 'X', 113-115, 'X', 117 <PET>
A:Cross-references: UNIPARC:UPI000017349C
R:Kitamura, K.; Kangawa, K.; Kawamoto, M.; Ichiki, Y.; Matsuo, H.; Eto, T.
Biochem. Biophys. Res. Commun. 185, 134-141, 1992
A:Title: Isolation and characterization of peptides which act on rat platelets, from a p
A:Reference number: JH0618; MUID:92287083; PMID:1318039
A:Accession: JH0619
A:Molecule type: protein
A:Residues: 83, 'X', 85-88, 'X', 90-108 <KIT>
A:Cross-references: UNIPARC:UPI000017349D
A:Experimental source: pheochromocytoma
R:Neiklin, B.D.; Rosenfeld, K.I.; de Bustros, A.; Leong, S.S.; Roos, B.A.; Baylin, S.B.

Biochem. Biophys. Res. Commun. 123, 648-655, 1984
A:Title: Structure and expression of a gene encoding human calcitonin and calcitonin gen
A:Reference number: I52204; MUID:85022523; PMID:6148938
A:Accession: I52204
A>Status: translated from GB/EMBL/DBJ
A:Molecule type: mRNA
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A:Cross-references: UNIPARC:UPI000016A6C0; GB:K03512; NID:g180465; PIDN:AAA52011.1; PID:
R:Craig, R.K.; Riley, J.H.; Edbrooke, M.R.; Broad, P.M.; Foord, S.M.; Al-Kazwini, S.J.;
Biochem. Soc. Symp. 52, 91-105, 1986
A:Title: Expression and function of the human calcitonin/alpha-CGRP gene in health and d
A:Reference number: I39387; MUID:87213363; PMID:3034287
A:Accession: I84508
A>Status: translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 77-128 <RE3>
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C:Comment: This peptide increases the rate and force of contraction of rat auricles in v
C:Genetics:
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A:Cross-references: GDB:I20571; OMIM:114130
A:Map position: 11p15.2-11p15.1
A:Introns: 29/2; 76/2
C:Superfamily: calcitonin
C:Keywords: alternative splicing; amidated carboxyl end; neuropeptide; vasodilator
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Db 85 DTATCVTHRLAGLLSRSGGVVKNFVPTNVGSKAF 119
Search completed: January 4, 2006, 11:47:09
Job time : 42 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: January 4, 2006, 11:32:26 ; Search time 46 Seconds
(without alignments)
66.500 Million cell updates/sec

Title: US-09-445-517-14
Perfect score: 139
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Scoring table:
BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 150 summaries

Database : Issued Patents AA.*

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3: /cgn2_6/ptodata/1/iaa/H_COMB.pep.*
4: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep.*
5: /cgn2_6/ptodata/1/iaa/RE_COMB.pep.*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	118	84.9	36	1	US-08-471-675A-14
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6	118	84.9	36	1	US-08-892-549-39
7	118	84.9	36	2	US-08-302-069A-6
8	118	84.9	36	2	US-08-302-069A-13
9	118	84.9	36	2	US-09-576-062A-6
10	118	84.9	36	2	US-09-576-062A-13
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54	116	83.5	36	2	US-08-302-069A-9
55	116	83.5	36	2	US-08-302-069A-10
56	116	83.5	36	2	US-08-302-069A-19
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Sequence 12, Appl
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140 110 79.1 37 1 US-08-477-727A-80
141 110 79.1 37 1 US-08-471-675A-6
142 110 79.1 37 1 US-08-892-549-8
143 110 79.1 37 2 US-08-302-069A-5
144 110 79.1 37 2 US-09-576-062A-5
145 110 79.1 37 2 US-09-454-533-8
146 109 78.4 37 1 US-08-259-762-12
147 109 78.4 37 1 US-08-259-762-13
148 108 77.7 37 1 US-08-477-727A-85
149 108 77.7 37 1 US-08-477-727A-106
150 108 77.7 37 1 US-08-471-675A-28

ALIGNMENTS

RESULT 1
US-08-477-727A-83
; Sequence 83, Application US/08477727A
; Patent No. 5739106
; GENERAL INFORMATION:
; APPLICANT: Rink, Timothy
; APPLICANT: Young, Andrew
; APPLICANT: Beely, Nigel
; APPLICANT: Prickett, Kathryn
; TITLE OF INVENTION: APPETITE REGULATING
; NUMBER OF SEQUENCES: 108
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA

Sequence 7, Appli
Sequence 8, Appli
Sequence 11, Appl
Sequence 15, Appl
Sequence 17, Appl
Sequence 18, Appl
Sequence 22, Appl
Sequence 4, Appli
Sequence 9, Appli
Sequence 12, Appl
Sequence 13, Appl
Sequence 16, Appl
Sequence 20, Appl
Sequence 22, Appl
Sequence 23, Appl
Sequence 27, Appl
Sequence 32, Appl
Sequence 321, App
Sequence 334, App
Sequence 321, App
Sequence 334, App
Sequence 8, Appli
Sequence 8, Appli
Sequence 5, Appli
Sequence 30, Appl
Sequence 14, Appl
Sequence 15, Appl
Sequence 40, Appl
Sequence 14, Appl
Sequence 15, Appl
Sequence 40, Appl
Sequence 104, App
Sequence 26, Appl
Sequence 25, Appl
Sequence 25, Appl
Sequence 30, Appl
Sequence 30, Appl
Sequence 77, Appl
Sequence 80, Appl
Sequence 6, Appli
Sequence 8, Appli
Sequence 5, Appli
Sequence 5, Appli
Sequence 12, Appl
Sequence 13, Appl
Sequence 85, Appl
Sequence 106, App
Sequence 28, Appl

; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,727A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 214/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:
; INFORMATION FOR SEQ ID NO: 83:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
US-08-477-727A-83

Query Match 84.9%; Score 118; DB 1; Length 36;
Best Local Similarity 68.6%; Pred. No. 8.4e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATCATQRLANFLXXXXXNNGPXLPTXVGSNTY 37
Db 2 NTATCATQRLANFLVRSNNFPILPSTNVSNTY 36

RESULT 2
US-08-477-727A-92
; Sequence 92, Application US/08477727A
; Patent No. 5739106
; GENERAL INFORMATION:
; APPLICANT: Rink, Timothy
; APPLICANT: Young, Andrew
; APPLICANT: Beely, Nigel
; APPLICANT: Prickett, Kathryn
; TITLE OF INVENTION: APPETITE REGULATING
; NUMBER OF SEQUENCES: 108
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,727A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:

```
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 214/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:
; INFORMATION FOR SEQ ID NO: 92:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-08-477-727A-92

Query Match 84.9%; Score 118; DB 1; Length 36;
Best Local Similarity 68.6%; Pred. No. 8.4e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNKGXLPXTXVGSNTY 37
|||||
Db 2 NTATCATQRLANFLVHSSNGLGVLPTSTNVSNTY 36

RESULT 3
US-08-471-675A-7
; Sequence 7, Application US/08471675A
; Patent No. 5795861
; GENERAL INFORMATION:
; APPLICANT: Kolterman, Orville
; APPLICANT: Rink, Timothy
; TITLE OF INVENTION: METHODS FOR REGULATING
; TITLE OF INVENTION: GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/471,675A
; FILING DATE: 05-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/302,069
; FILING DATE: 07-SEP-1994
; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 213/048
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; OTHER INFORMATION: disulfide bridge between the Cys
; residues at positions 1 and 6;
; OTHER INFORMATION: amidated Tyr at position 36
; US-08-471-675A-14

Query Match 84.9%; Score 118; DB 1; Length 36;
Best Local Similarity 68.6%; Pred. No. 8.4e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
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; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; OTHER INFORMATION: disulfide bridge between the Cys
; residues at positions 1 and 6;
; OTHER INFORMATION: amidated Tyr at position 36
; US-08-471-675A-7

Query Match 84.9%; Score 118; DB 1; Length 36;
Best Local Similarity 68.6%; Pred. No. 8.4e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNKGXLPXTXVGSNTY 37
|||||
Db 2 NTATCATQRLANFLVHSSNGLGVLPTSTNVSNTY 36

RESULT 4
US-08-471-675A-14
; Sequence 14, Application US/08471675A
; Patent No. 5795861
; GENERAL INFORMATION:
; APPLICANT: Kolterman, Orville
; APPLICANT: Rink, Timothy
; TITLE OF INVENTION: METHODS FOR REGULATING
; TITLE OF INVENTION: GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/471,675A
; FILING DATE: 05-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/302,069
; FILING DATE: 07-SEP-1994
; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 213/048
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; OTHER INFORMATION: disulfide bridge between the Cys
; residues at positions 1 and 6;
; OTHER INFORMATION: amidated Tyr at position 36
; US-08-471-675A-14

Query Match 84.9%; Score 118; DB 1; Length 36;
Best Local Similarity 68.6%; Pred. No. 8.4e-15;
```


;; NUMBER OF SEQUENCES: 30
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: LYON & LYON
;; STREET: 633 WEST FIFTH STREET
;; CITY: LOS ANGELES
;; STATE: CALIFORNIA
;; COUNTRY: USA
;; ZIP: 90017
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.25
;;
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/302.069A
;; FILING DATE: 07-SEP-1994
;; CLASSIFICATION: 514
;;
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/118,381
;; FILING DATE: 07-SEP-1993
;; ATTORNEY/AGENT INFORMATION:
;; NAME: DUFT, BRADFORD J.
;; REGISTRATION NUMBER: 32,219
;; REFERENCE/DOCKET NUMBER: 209/146
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 619/552-2200
;; TELEFAX: 213/955-0440
;; TELEX: 67-3510
;;
;; INFORMATION FOR SEQ ID NO: 6:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 36 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
;; FEATURE:
;; LOCATION: 1,6
;; OTHER INFORMATION: disulfide bridge between
;; the Cys residues
;; LOCATION: 36
;; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
;;
;; US-08-302-069A-6

Query Match 84.9%; Score 118; DB 2; Length 36;
Best Local Similarity 68.6%; Pred. No. 8.4e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNGPXLPTXVGSNTY 37
|||||
Db 2 NTATCATQRLANFLVRSSNNGPILPSTNVGSNTY 36

RESULT 8
US-08-302-069A-13
; Sequence 13, Application US/08302069A
; Patent No. 6114304
; GENERAL INFORMATION:
; APPLICANT: KOLTERMAN, Orville G.
; APPLICANT: YOUNG, Andrew A.
; APPLICANT: RINK, Timothy J.
; APPLICANT: BROWN, Kathleen Ann Keiting
; TITLE OF INVENTION: METHODS FOR REGULATING
; GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/302.069A
;; FILING DATE: 07-SEP-1994
;; CLASSIFICATION: 514
;;
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/118,381
;; FILING DATE: 07-SEP-1993
;; ATTORNEY/AGENT INFORMATION:
;; NAME: DUFT, BRADFORD J.
;; REGISTRATION NUMBER: 32,219
;; REFERENCE/DOCKET NUMBER: 209/146
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 619/552-2200
;; TELEFAX: 213/955-0440
;; TELEX: 67-3510
;;
;; INFORMATION FOR SEQ ID NO: 13:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 36 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
;; FEATURE:
;; LOCATION: 1,6
;; OTHER INFORMATION: disulfide bridge between
;; the Cys residues
;; LOCATION: 36
;; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
;;
;; US-08-302-069A-13

Query Match 84.9%; Score 118; DB 2; Length 36;
Best Local Similarity 68.6%; Pred. No. 8.4e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNGPXLPTXVGSNTY 37
|||||
Db 2 NTATCATQRLANFLVRSSNNGPILPSTNVGSNTY 36

RESULT 9
US-09-576-062A-6
; Sequence 6, Application US/09576062A
; Patent No. 6608029
; GENERAL INFORMATION:
; APPLICANT: KOLTERMAN, Orville G.
; APPLICANT: YOUNG, Andrew A.
; APPLICANT: RINK, Timothy J.
; APPLICANT: BROWN, Kathleen Ann Keiting
; TITLE OF INVENTION: METHODS FOR REGULATING
; GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/576.062A
; FILING DATE: 22-May-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/302.069
; FILING DATE: 07-SEP-1994

```

; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 209/146
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 36
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-09-576-062A-6

Query Match      84.9%; Score 118; DB 2; Length 36;
Best Local Similarity 68.6%; Pred. No. 8.4e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY  3 NTATXATQRLXNFXLXXXXXNKGXPLPXTXVGSNTY 37
    ||||| ||||| ||||| ||||| ||||| |||||
Db  2 NTATCATQRLANFLVRSSNFGPILPSTNVGSNTY 36

RESULT 10
US-09-576-062A-13
; Sequence 13, Application US/09576062A
; Patent No. 6608029
; GENERAL INFORMATION:
; APPLICANT: KOLTERMAN, Orville G.
; YOUNG, Andrew A.
; RINK, Timothy J.
; BROWN, Kathleen Ann Keiting
; TITLE OF INVENTION: METHODS FOR REGULATING
; GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 22-May-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION NUMBER: 08/302,069
; APPLICATION DATA:
; FILING DATE: 07-SEP-1994
; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 209/146
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510

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; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 36
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-09-576-062A-13

Query Match      84.9%; Score 118; DB 2; Length 36;
Best Local Similarity 68.6%; Pred. No. 8.4e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY  3 NTATXATQRLXNFXLXXXXXNKGXPLPXTXVGSNTY 37
    ||||| ||||| ||||| ||||| ||||| |||||
Db  2 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 36

RESULT 11
US-09-454-533-18
; Sequence 18, Application US/09454533
; Patent No. 6610824
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/454,533
; FILING DATE: 06-Dec-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/892,549
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 36
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 18:

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; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:
; INFORMATION FOR SEQ ID NO: 93:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-08-477-727A-93

Query Match      84.9%; Score 118; DB 1; Length 37;
Best Local Similarity 68.6%; Pred. No. 8.7e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNKGXPLPXTXVGSNTY 37
    ||||| ||||| ||||| ||||| ||||| |||||
Db 3 NTATCATQRLANFLVRSSNNLGPVLPSTNVGSNTY 37

RESULT 17
US-08-477-727A-95
; Sequence 95, Application US/08477727A
; Patent No. 5739106
; GENERAL INFORMATION:
; APPLICANT: Rink, Timothy
; APPLICANT: Young, Andrew
; APPLICANT: Beeley, Nigel
; APPLICANT: Prickett, Kathryn
; TITLE OF INVENTION: APPETITE REGULATING
; TITLE OF INVENTION: COMPOSITIONS
; NUMBER OF SEQUENCES: 108
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,727A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 214/005
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:
; INFORMATION FOR SEQ ID NO: 95:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
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; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-08-477-727A-95

Query Match      84.9%; Score 118; DB 1; Length 37;
Best Local Similarity 68.6%; Pred. No. 8.7e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNKGXPLPXTXVGSNTY 37
    ||||| ||||| ||||| ||||| ||||| |||||
Db 3 NTATCATQRLANFLVRSSNNLGPVLPSTNVGSNTY 37

RESULT 18
US-08-471-675A-4
; Sequence 4, Application US/08471675A
; Patent No. 5795861
; GENERAL INFORMATION:
; APPLICANT: Kolterman, Orville
; APPLICANT: Rink, Timothy
; TITLE OF INVENTION: METHODS FOR REGULATING
; TITLE OF INVENTION: GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/471,675A
; FILING DATE: 05-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/302,069
; FILING DATE: 07-SEP-1994
; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 213/048
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Peptide
; FEATURE:
; OTHER INFORMATION: disulfide bridge between the Cys
; OTHER INFORMATION: residues at positions 2 and 7;
; OTHER INFORMATION: amidated Tyr at position 37
; US-08-471-675A-4

Query Match      84.9%; Score 118; DB 1; Length 37;
Best Local Similarity 68.6%; Pred. No. 8.7e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNKGXPLPXTXVGSNTY 37
    ||||| ||||| ||||| ||||| ||||| |||||
Db 3 NTATCATQRLANFLVRSSNNLGPVLPSTNVGSNTY 37
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1 / ADDRESSEE: LYON & LYON
2 / STREET: 633 WEST FIFTH STREET, SUITE 4700
3 / CITY: LOS ANGELES
4 / STATE: CA
5 / COUNTRY: USA
6 / ZIP: 90071-2066
7 / COMPUTER READABLE FORM:
8 / MEDIUM TYPE: Diskette
9 / COMPUTER: IBM Compatible
10 / OPERATING SYSTEM: DOS
11 / SOFTWARE: Fast-SEQ Version 2.0
12 / CURRENT APPLICATION DATA:
13 / APPLICATION NUMBER: US/08/471.675A
14 / FILING DATE: 05-JUN-1995
15 / CLASSIFICATION: 514
16 / PRIOR APPLICATION DATA:
17 / APPLICATION NUMBER: 08/302,069
18 / FILING DATE: 07-SEP-1994
19 / APPLICATION NUMBER: 08/118,381
20 / FILING DATE: 07-SEP-1993
21 / ATTORNEY/AGENT INFORMATION:
22 / NAME: DUFT, BRADFORD J
23 / REGISTRATION NUMBER: 32,219
24 / REFERENCE/DOCKET NUMBER: 213/048
25 / TELECOMMUNICATION INFORMATION:
26 / TELEPHONE: 619-552-8400
27 / TELEFAX: 619-552-0157
28 / TELEX:
29 / INFORMATION FOR SEQ ID NO: 15:
30 / SEQUENCE CHARACTERISTICS:
31 / LENGTH: 37 amino acids
32 / TYPE: amino acid
33 / STRANDEDNESS: single
34 / TOPOLOGY: linear
35 / MOLECULE TYPE: peptide
36 / FEATURE:
37 / OTHER INFORMATION: disulfide bridge between the Cys
38 / OTHER INFORMATION: residues at positions 2 and 7;
39 / OTHER INFORMATION: amidated Tyr at position 37
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APPLICATION NUMBER: US/08/471,675A
FILING DATE: 05-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/302,069
FILING DATE: 07-SEP-1994
APPLICATION NUMBER: 08/118,381
FILING DATE: 07-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 213/048
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-552-8400
TELEFAX: 619-552-0157
TELEX:
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
OTHER INFORMATION: disulfide bridge between the Cys
OTHER INFORMATION: residues at positions 2 and 7;
OTHER INFORMATION: amidated Tyr at position 37
US-08-471-675A-17

Query Match 84.9%; Score 118; DB 1; Length 37;
Best Local Similarity 68.6%; Pred. No. 8.7e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNKGXPXLPXTXVGSNTY 37
|||||
Db 3 NTATCATQRLANFLVRSSNNLGPILPSTNVGSNTY 37
|||||

RESULT 22
US-08-892-549-10
Sequence 10, Application US/08892549
Patent No. 5998367
GENERAL INFORMATION:
APPLICANT: GAETA, Laura S.L. Et Al.
TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
TITLE OF INVENTION: USES THEREFOR
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/892,549
FILING DATE: 14-JUL-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/447,849
FILING DATE: 23-MAY-1995
APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991
APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219

REFERENCE/DOCKET NUMBER: 227/006
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
LOCATION: 2,7
OTHER INFORMATION: disulfide bridge between
OTHER INFORMATION: the Cys residues
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-892-549-10

Query Match 84.9%; Score 118; DB 1; Length 37;
Best Local Similarity 68.6%; Pred. No. 8.7e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNKGXPXLPXTXVGSNTY 37
|||||
Db 3 NTATCATQRLANFLVRSSNNFGPILPSTNVGSNTY 37
|||||

RESULT 23
US-08-892-549-17
Sequence 17, Application US/08892549
Patent No. 5998367
GENERAL INFORMATION:
APPLICANT: GAETA, Laura S.L. Et Al.
TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
TITLE OF INVENTION: USES THEREFOR
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/892,549
FILING DATE: 14-JUL-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/447,849
FILING DATE: 23-MAY-1995
APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991
APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 227/006
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
LOCATION: 2,7
OTHER INFORMATION: disulfide bridge between
OTHER INFORMATION: the Cys residues
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-892-549-17

Query Match 84.9%; Score 118; DB 1; Length 37;
Best Local Similarity 68.6%; Pred. No. 8.7e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNKGPKLPXTXVGSNTY 37
|||||
Db 3 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 37

RESULT 24
US-08-892-549-19
Sequence 19, Application US/08892549
Patent No. 5998367
GENERAL INFORMATION:
APPLICANT: GAETA, Laura S.L. Et Al.
TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
TITLE OF INVENTION: USES THEREFOR
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/892,549
FILING DATE: 14-JUL-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/447,849
FILING DATE: 23-MAY-1995
APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991
APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 227/006
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
LOCATION: 2,7
OTHER INFORMATION: disulfide bridge between
OTHER INFORMATION: the Cys residues
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)

US-08-892-549-19
Query Match 84.9%; Score 118; DB 1; Length 37;
Best Local Similarity 68.6%; Pred. No. 8.7e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
Qy 3 NTATXATQRLXNFXLXXXXXNKGPKLPXTXVGSNTY 37
|||||
Db 3 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 37

RESULT 25
US-08-892-549-21
Sequence 21, Application US/08892549
Patent No. 5998367
GENERAL INFORMATION:
APPLICANT: GAETA, Laura S.L. Et Al.
TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
TITLE OF INVENTION: USES THEREFOR
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/892,549
FILING DATE: 14-JUL-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/447,849
FILING DATE: 23-MAY-1995
APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991
APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 227/006
TELEPHONE: 619/552-2200
TELEFAX: 213/955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
LOCATION: 2,7
OTHER INFORMATION: disulfide bridge between
OTHER INFORMATION: the Cys residues
LOCATION: 37
OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-892-549-21

Query Match 84.9%; Score 118; DB 1; Length 37;
Best Local Similarity 68.6%; Pred. No. 8.7e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
Qy 3 NTATXATQRLXNFXLXXXXXNKGPKLPXTXVGSNTY 37
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Db 3 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 37

RESULT 26
US-08-892-549-38
; Sequence 38, Application US/08892549
; Patent No. 5998367
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; TITLE OF INVENTION: USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/892,549
; FILING DATE: 14-JUL-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/447,849
; FILING DATE: 23-MAY-1995
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 38:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 2,7
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-892-549-38
Query Match 84.9%; Score 118; DB 1; Length 37;
Best Local Similarity 68.6%; Pred. No. 8.7e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
Oy 3 NTATCATQRLXNFKLXXXXXKXGPKLPTXVGSNTY 37
Db 3 NTATCATQRLANFLVHSSNNFGPILPSTNVGSNTY 37
RESULT 27
US-08-302-069A-3
; Sequence 3, Application US/08302069A
; Patent No. 6114304
; GENERAL INFORMATION:
; APPLICANT: KOLTERMAN, Orville G.
; APPLICANT: YOUNG, Andrew A.
; APPLICANT: RINK, Timothy J.
; APPLICANT: BROWN, Kathleen Ann Keiting
; TITLE OF INVENTION: METHODS FOR REGULATING
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA

; APPLICANT: RINK, Timothy J.
; APPLICANT: BROWN, Kathleen Ann Keiting
; TITLE OF INVENTION: METHODS FOR REGULATING
; TITLE OF INVENTION: GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/302,069A
; FILING DATE: 07-SEP-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 209/146
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 2,7
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-302-069A-3
Query Match 84.9%; Score 118; DB 2; Length 37;
Best Local Similarity 68.6%; Pred. No. 8.7e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
Oy 3 NTATCATQRLXNFKLXXXXXKXGPKLPTXVGSNTY 37
Db 3 NTATCATQRLANFLVHSSNNFGPILPSTNVGSNTY 37
RESULT 28
US-08-302-069A-12
; Sequence 12, Application US/08302069A
; Patent No. 6114304
; GENERAL INFORMATION:
; APPLICANT: KOLTERMAN, Orville G.
; APPLICANT: YOUNG, Andrew A.
; APPLICANT: RINK, Timothy J.
; APPLICANT: BROWN, Kathleen Ann Keiting
; TITLE OF INVENTION: METHODS FOR REGULATING
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA

```
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/302,069A
; FILING DATE: 07-SEP-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 209/146
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 2,7
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
;
US-08-302-069A-12

Query Match 84.9%; Score 118; DB 2; Length 37;
Best Local Similarity 68.6%; Pred. No. 8.7e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLNFXLXXXXXNKGXPLPTXVGSNTY 37
||| ||||| ||| ||| ||| ||| ||| ||| |||
Db 3 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 37

RESULT 29
US-08-302-069A-14
; Sequence 14, Application US/08302069A
; Patent No. 6114304
; GENERAL INFORMATION:
; APPLICANT: KOLTERMAN, Orville G.
; APPLICANT: YOUNG, Andrew A.
; APPLICANT: RINK, Timothy J.
; APPLICANT: BROWN, Kathleen Ann Keiting
; TITLE OF INVENTION: METHODS FOR REGULATING
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/302,069A
; FILING DATE: 07-SEP-1994
```

```
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 209/146
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 2,7
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
;
US-08-302-069A-14

Query Match 84.9%; Score 118; DB 2; Length 37;
Best Local Similarity 68.6%; Pred. No. 8.7e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLNFXLXXXXXNKGXPLPTXVGSNTY 37
||| ||||| ||| ||| ||| ||| ||| ||| |||
Db 3 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 37

RESULT 30
US-08-302-069A-16
; Sequence 16, Application US/08302069A
; Patent No. 6114304
; GENERAL INFORMATION:
; APPLICANT: KOLTERMAN, Orville G.
; APPLICANT: YOUNG, Andrew A.
; APPLICANT: RINK, Timothy J.
; APPLICANT: BROWN, Kathleen Ann Keiting
; TITLE OF INVENTION: METHODS FOR REGULATING
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/302,069A
; FILING DATE: 07-SEP-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 209/146
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
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; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 2,7
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; US-08-302-069A-16

Query Match      84.9%; Score 118; DB 2; Length 37;
Best Local Similarity 68.6%; Pred. No. 8.7e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy      3 NTATXATQRLXNLFXXXXXNKGXLPXTXVGSNTY 37
      ||||| ||||| ||||| ||||| ||||| |||||
Db      3 NTATCATQRLANFLVRSSNNLGPILPSTNVGSNTY 37

RESULT 31
US-09-576-062A-3
; Sequence 3, Application US/09576062A
; Patent No. 6608029
; GENERAL INFORMATION:
; APPLICANT: KOLTERMAN, Orville G.
; YOUNG, Andrew A.
; RINK, Timothy J.
; BROWN, Kathleen Ann Keiting
; TITLE OF INVENTION: METHODS FOR REGULATING
; GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 22-May-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION NUMBER: US/09/576,062A
; APPLICATION NUMBER: 08/302,069
; FILING DATE: 07-SEP-1994
; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; NAME: DUFT, BRADFORD J.
; ATTORNEY/AGENT INFORMATION:
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 209/146
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 12:
US-09-576-062A-12

Query Match      84.9%; Score 118; DB 2; Length 37;
Best Local Similarity 68.6%; Pred. No. 8.7e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
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;
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-576-062A-3

Query Match      84.9%; Score 118; DB 2; Length 37;
Best Local Similarity 68.6%; Pred. No. 8.7e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy      3 NTATXATQRLXNLFXXXXXNKGXLPXTXVGSNTY 37
      ||||| ||||| ||||| ||||| ||||| |||||
Db      3 NTATCATQRLANFLVRSSNNLGPILPSTNVGSNTY 37

RESULT 32
US-09-576-062A-12
; Sequence 12, Application US/09576062A
; Patent No. 6608029
; GENERAL INFORMATION:
; APPLICANT: KOLTERMAN, Orville G.
; YOUNG, Andrew A.
; RINK, Timothy J.
; BROWN, Kathleen Ann Keiting
; TITLE OF INVENTION: METHODS FOR REGULATING
; GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/576,062A
; FILING DATE: 22-May-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION NUMBER: 08/302,069
; APPLICATION NUMBER: 08/302,069
; FILING DATE: 07-SEP-1994
; APPLICATION NUMBER: 08/118,381
; FILING DATE: 07-SEP-1993
; NAME: DUFT, BRADFORD J.
; ATTORNEY/AGENT INFORMATION:
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 209/146
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 12:
US-09-576-062A-12

Query Match      84.9%; Score 118; DB 2; Length 37;
Best Local Similarity 68.6%; Pred. No. 8.7e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
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;; COUNTRY: USA
;; ZIP: 90017
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/09/454,533
;; FILING DATE: 06-Dec-1999
;; CLASSIFICATION: <Unknown>
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/892,549
;; FILING DATE: <Unknown>
;; APPLICATION NUMBER: 07/794,266
;; FILING DATE: 19-NOV-1991
;; APPLICATION NUMBER: US 07/667,040
;; FILING DATE: 08-MAR-1991
;; ATTORNEY/AGENT INFORMATION:
;; NAME: DUFT, BRADFORD J.
;; REGISTRATION NUMBER: 32,219
;; REFERENCE/DOCKET NUMBER: 227/006
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 619/552-2200
;; TELEFAX: 213/955-0440
;; TELEX: 67-3510
;; INFORMATION FOR SEQ ID NO: 10:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 37 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
;; FEATURE:
;; LOCATION: 37
;; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
;; SEQUENCE DESCRIPTION: SEQ ID NO: 10:
US-09-454-533-10

Query Match 84.9%; Score 118; DB 2; Length 37;
Best Local Similarity 68.6%; Pred. No. 8.7e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNGPXLPTXVGSNTY 37
|||||
Db 3 NTATCATQRLANFLVRSSNNGPILPSTNVGSNTY 37

RESULT 36
US-09-454-533-17
Sequence 17, Application US/09454533
Patent No. 6610824
GENERAL INFORMATION:
APPLICANT: GAETA, Laura S.L. Et Al.
TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
USES THEREFOR
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/454,533
FILING DATE: 06-Dec-1999
CLASSIFICATION: <Unknown>

;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/892,549
;; FILING DATE: <Unknown>
;; APPLICATION NUMBER: 07/794,266
;; FILING DATE: 19-NOV-1991
;; APPLICATION NUMBER: US 07/667,040
;; FILING DATE: 08-MAR-1991
;; ATTORNEY/AGENT INFORMATION:
;; NAME: DUFT, BRADFORD J.
;; REGISTRATION NUMBER: 32,219
;; REFERENCE/DOCKET NUMBER: 227/006
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 619/552-2200
;; TELEFAX: 213/955-0440
;; TELEX: 67-3510
;; INFORMATION FOR SEQ ID NO: 17:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 37 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; FEATURE:
;; LOCATION: 37
;; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
;; SEQUENCE DESCRIPTION: SEQ ID NO: 17:
US-09-454-533-17

Query Match 84.9%; Score 118; DB 2; Length 37;
Best Local Similarity 68.6%; Pred. No. 8.7e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNGPXLPTXVGSNTY 37
|||||
Db 3 NTATCATQRLANFLVRSSNNGPILPSTNVGSNTY 37

RESULT 37
US-09-454-533-19
Sequence 19, Application US/09454533
Patent No. 6610824
GENERAL INFORMATION:
APPLICANT: GAETA, Laura S.L. Et Al.
TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
USES THEREFOR
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: LYON & LYON
STREET: 633 WEST FIFTH STREET
CITY: LOS ANGELES
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/454,533
FILING DATE: 06-Dec-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/892,549
FILING DATE: <Unknown>
APPLICATION NUMBER: 07/794,266
FILING DATE: 19-NOV-1991
APPLICATION NUMBER: US 07/667,040
FILING DATE: 08-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: DUFT, BRADFORD J.
REGISTRATION NUMBER: 32,219
REFERENCE/DOCKET NUMBER: 227/006

```
;
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 19:
US-09-454-533-19
Query Match 84.9%; Score 118; DB 2; Length 37;
Best Local Similarity 68.6%; Pred. No. 8.7e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNKGXPXLPXTXVGSNTY 37
||| ||||| ||| ||| ||| |||||
Db 3 NTATCATQRLANFLVRSSNNLGPVLPSTNVGSNTY 37

RESULT 38
US-09-454-533-21
; Sequence 21, Application US/09454533
; Patent No. 6610824
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S. L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/454,533
; FILING DATE: 06-Dec-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/892,549
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 21:
US-09-454-533-21
Query Match 84.9%; Score 118; DB 2; Length 37;
Best Local Similarity 68.6%; Pred. No. 8.7e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNKGXPXLPXTXVGSNTY 37
||| ||||| ||| ||| ||| |||||
Db 3 NTATCATQRLANFLVRSSNNLGPVLPSTNVGSNTY 37

RESULT 39
US-09-454-533-38
; Sequence 38, Application US/09454533
; Patent No. 6610824
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S. L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/454,533
; FILING DATE: 06-Dec-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/892,549
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 38
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; LOCATION: 37
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 38:
US-09-454-533-38
Query Match 84.9%; Score 118; DB 2; Length 37;
Best Local Similarity 68.6%; Pred. No. 8.7e-15;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFXLXXXXXNKGXPXLPXTXVGSNTY 37
||| ||||| ||| ||| ||| |||||
Db 3 NTATCATQRLANFLVRSSNNLGPVLPSTNVGSNTY 37
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Db 3 NTATCATORLANFLVHSSNNFGPILPSTNVGSNTY 37
RESULT 40
US-08-892-549-11
; Sequence 11, Application US/08892549
; Patent No. 598367
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S.L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/892,549
; FILING DATE: 14-JUL-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/447,849
; FILING DATE: 23-MAY-1995
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 1,6
; OTHER INFORMATION: disulfide bridge between
; OTHER INFORMATION: the Cys residues
; LOCATION: 36
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
US-08-892-549-11
Query Match 84.2%; Score 117; DB 1; Length 36;
Best Local Similarity 68.6%; Pred. No. 1.3e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
Qy 3 NTATXATORLXNFXLXXXXXGPKLPXTXVGSNTY 37
Db 2 NTATCATORLANFLVHRSNNFGPILPSTNVGSNTY 36
RESULT 41
US-09-454-533-11
; Sequence 11, Application US/09454533
; Patent No. 6610824
; GENERAL INFORMATION:

; APPLICANT: GAETA, Laura S.L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/454,533
; FILING DATE: 06-Dec-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/892,549
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; LOCATION: 36
; OTHER INFORMATION: amidated Tyr (Tyrosinamide)
; SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-09-454-533-11
Query Match 84.2%; Score 117; DB 2; Length 36;
Best Local Similarity 68.6%; Pred. No. 1.3e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
Qy 3 NTATXATORLXNFXLXXXXXGPKLPXTXVGSNTY 37
Db 2 NTATCATORLANFLVHRSNNFGPILPSTNVGSNTY 36
RESULT 42
US-08-477-727A-107
; Sequence 107, Application US/08477727A
; Patent No. 5739106
; GENERAL INFORMATION:
; APPLICANT: Rink, Timothy
; APPLICANT: Young, Andrew
; APPLICANT: Beeley, Nigel
; APPLICANT: Prickett, Kathryn
; TITLE OF INVENTION: APPETITE REGULATING
; NUMBER OF SEQUENCES: 108
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES

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; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,727A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 214/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:
; INFORMATION FOR SEQ ID NO: 107:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-08-477-727A-107

Query Match 84.2%; Score 117; DB 1; Length 37;
Best Local Similarity 68.6%; Pred. No. 1.3e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 3 NTATYATQRLNFLXXXXXNGPKLPTXYXVGSNTY 37
||| ||||| ||| ||| ||| |||||
Db 3 NTATCATQRLTNFLVRSSHNLGPALPPTDVGSNY 37

RESULT 44
US-08-892-549-33
; Sequence 33, Application US/08892549
; Patent No. 5998367
; GENERAL INFORMATION:
; APPLICANT: GAETA, Laura S. L. Et Al.
; TITLE OF INVENTION: NOVEL AMYLIN AGONIST PEPTIDES AND
; TITLE OF INVENTION: USES THEREFOR
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET
; CITY: LOS ANGELES
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/892,549
; FILING DATE: 14-JUL-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/447,849
; FILING DATE: 23-MAY-1995
; APPLICATION NUMBER: 07/794,266
; FILING DATE: 19-NOV-1991
; APPLICATION NUMBER: US 07/667,040
; FILING DATE: 08-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J.
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 227/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/552-2200
; TELEFAX: 213/955-0440
; TELEX: 67-3510

; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,727A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 214/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:
; INFORMATION FOR SEQ ID NO: 107:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 37 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-08-477-727A-107

Query Match 84.2%; Score 117; DB 1; Length 37;
Best Local Similarity 68.6%; Pred. No. 1.3e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 3 NTATYATQRLNFLXXXXXNGPKLPTXYXVGSNTY 37
||| ||||| ||| ||| ||| |||||
Db 3 NTATCATQRLTNFLVRSSHNLGPALPPTDVGSNY 37

RESULT 43
US-08-471-675A-29
; Sequence 29, Application US/08471675A
; Patent No. 5795861
; GENERAL INFORMATION:
; APPLICANT: Kolterman, Orville
; APPLICANT: Rink, Timothy
; TITLE OF INVENTION: METHODS FOR REGULATING
; TITLE OF INVENTION: GASTROINTESTINAL MOTILITY
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/471,675A
; FILING DATE: 05-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/302,069
```



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; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: Fast-SEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,727A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 214/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:
; INFORMATION FOR SEQ ID NO: 88:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-08-477-727A-88

```

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Query Match 83.5%; Score 116; DB 1; Length 36;
Best Local Similarity 68.6%; Pred. No. 2e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFLXXXXXXNGPXLPTXXVGSNTY 37
    |||||
Db 2 NTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 36
    |||||

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RESULT 50
US-08-477-727A-98
; Sequence 98, Application US/08477727A
; Patent No. 5739106
; GENERAL INFORMATION:
; APPLICANT: Rink, Timothy
; APPLICANT: Young, Andrew
; APPLICANT: Beeley, Nigel
; APPLICANT: Prickett, Kathryn
; TITLE OF INVENTION: APPETITE REGULATING
; TITLE OF INVENTION: COMPOSITIONS
; NUMBER OF SEQUENCES: 108
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 WEST FIFTH STREET, SUITE 4700
; CITY: LOS ANGELES
; STATE: CA
; COUNTRY: USA
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,727A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:

```

```

; ATTORNEY/AGENT INFORMATION:
; NAME: DUFT, BRADFORD J
; REGISTRATION NUMBER: 32,219
; REFERENCE/DOCKET NUMBER: 214/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-552-8400
; TELEFAX: 619-552-0157
; TELEX:
; INFORMATION FOR SEQ ID NO: 98:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-08-477-727A-98

```

```

Query Match 83.5%; Score 116; DB 1; Length 36;
Best Local Similarity 68.6%; Pred. No. 2e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFLXXXXXXNGPXLPTXXVGSNTY 37
    |||||
Db 2 NTATCATQRLANFLVHSSNNFGPILPPTNVGSNTY 36
    |||||

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Search completed: January 4, 2006, 11:46:22
Job time : 48 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: January 4, 2006, 11:29:11 ; Search time 188 Seconds

(without alignments)

86.473 Million cell updates/sec

Title: US-09-445-517-14

Perfect score: 139

Sequence: 1 XXNTATATQRLXNLFXXXXXXGXPXLPXTXVGSNTY 37

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2443163 seqs, 439378781 residues

Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 150 summaries

Database : A_Geneseq_21.*

1: Geneseq1980s.*
2: Geneseq1990s.*
3: Geneseq2000s.*
4: Geneseq2001s.*
5: Geneseq2002s.*
6: Geneseq2003as.*
7: Geneseq2003bs.*
8: Geneseq2004as.*
9: Geneseq2005s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	118	84.9	36	2	AAR29207
2	118	84.9	36	2	AAR29201
3	118	84.9	36	2	AAR38811
4	118	84.9	36	2	AAR37789
5	118	84.9	36	2	AAR37787
6	118	84.9	36	2	AAY22438
7	118	84.9	36	2	AAY22444
8	118	84.9	36	2	AAW90149
9	118	84.9	36	2	AAW90141
10	118	84.9	36	3	AAW18584
11	118	84.9	36	3	AAW18577
12	118	84.9	36	5	ABW05499
13	118	84.9	36	5	ABW05491
14	118	84.9	36	8	ADI36176
15	118	84.9	36	8	ADI36183
16	118	84.9	36	8	ADW51020
17	118	84.9	36	8	ADW51027
18	118	84.9	36	9	ADW92867
19	118	84.9	36	9	ADW92846
20	118	84.9	36	9	ABW17945
21	118	84.9	36	9	ABW17966
22	118	84.9	37	2	AAR29208
23	118	84.9	37	2	AAR29206
24	118	84.9	37	2	AAR29203

25	118	84.9	37	2	AAR29210	Aar29210	Arg(18)Le
26	118	84.9	37	2	AAR29200	Aar29200	Arg(18)Pr
27	118	84.9	37	2	AAR37786	Aar37786	Pro25, Pr
28	118	84.9	37	2	AAR38812	Aar38812	Arg18, Le
29	118	84.9	37	2	AAR38814	Aar38814	Arg18, Le
30	118	84.9	37	2	AAR37788	Aar37788	Arg18, Pr
31	118	84.9	37	2	AAR38810	Aar38810	Leu23, Pr
32	118	84.9	37	2	AAY22443	Aay22443	Leu23, Pr
33	118	84.9	37	2	AAY22445	Aay22445	Arg18, Le
34	118	84.9	37	2	AAY22435	Aay22435	Arg18, Pr
35	118	84.9	37	2	AAY22447	Aay22447	Arg18, Le
36	118	84.9	37	2	AAW90140	Aaw90140	Human am
37	118	84.9	37	2	AAW90150	Aaw90150	Human am
38	118	84.9	37	2	AAW90152	Aaw90152	Human am
39	118	84.9	37	2	AAW90148	Aaw90148	Human am
40	118	84.9	37	3	AAW18587	Aab18587	Amino aci
41	118	84.9	37	3	AAW18585	Aab18585	Amino aci
42	118	84.9	37	3	AAW18574	Aab18574	Amino aci
43	118	84.9	37	3	AAW18604	Aab18604	Amino aci
44	118	84.9	37	3	AAW18583	Aab18583	Amino aci
45	118	84.9	37	5	ABW05496	Abb05496	Human am
46	118	84.9	37	5	ABW05490	Abb05490	Human am
47	118	84.9	37	5	ABW05498	Abb05498	Human am
48	118	84.9	37	5	ABW05500	Abb05500	Human am
49	118	84.9	37	5	ABW05502	Abb05502	Human am
50	118	84.9	37	5	ABW05487	Abb05487	Human am
51	118	84.9	37	8	ADI36182	Adi36182	Human am
52	118	84.9	37	8	ADI36173	Adi36173	Human am
53	118	84.9	37	8	ADI36186	Adi36186	Human am
54	118	84.9	37	8	ADI36184	Adi36184	Human am
55	118	84.9	37	8	ADW51028	Adw51028	Human am
56	118	84.9	37	8	ADW51030	Adw51030	Human am
57	118	84.9	37	8	ADW51017	Adw51017	Human am
58	118	84.9	37	8	ADW51026	Adw51026	Human am
59	118	84.9	37	9	ADW92838	Adw92838	Amylin pe
60	118	84.9	37	9	ADW92845	Adw92845	Amylin pe
61	118	84.9	37	9	ADW92865	Adw92865	Amylin pe
62	118	84.9	37	9	ADW92849	Adw92849	Amylin pe
63	118	84.9	37	9	ADW92847	Adw92847	Amylin pe
64	118	84.9	37	9	AEW17944	Aeb17944	Human am
65	118	84.9	37	9	AEW17948	Aeb17948	Human am
66	118	84.9	37	9	AEW17965	Aeb17965	Human am
67	118	84.9	37	9	AEW17937	Aeb17937	Human am
68	118	84.9	37	9	AEW17946	Aeb17946	Human am
69	117	84.2	36	9	ADW92839	Adw92839	Amylin pe
70	117	84.2	36	9	AEW17938	Aeb17938	Human am
71	117	84.2	37	2	AAR29222	Aar29222	Thr(13)Ar
72	117	84.2	37	2	AAR38826	Aar38826	Thr13,Arg
73	117	84.2	37	2	AAY22459	Aay22459	Thr13,Arg
74	117	84.2	37	2	AAW90164	Aaw90164	Amylin ag
75	117	84.2	37	3	AAW18603	Aab18603	Amino aci
76	117	84.2	37	3	AAW18599	Aab18599	Amino aci
77	117	84.2	37	5	ABW05514	Abb05514	Amylin ag
78	117	84.2	37	8	ADI36198	Adi36198	Human am
79	117	84.2	37	8	ADW51042	Adw51042	Human am
80	117	84.2	37	9	ADW92861	Adw92861	Amylin pe
81	117	84.2	37	9	AEW17960	Aeb17960	Human am
82	116	83.5	36	2	AAR29204	Aar29204	Des-Lys(1
83	116	83.5	36	2	AAR29213	Aar29213	Des-Lys(1
84	116	83.5	36	2	AAR37791	Aar37791	(Des-Lys1
85	116	83.5	36	2	AAR37794	Aar37794	(Des-Lys1
86	116	83.5	36	2	AAR38817	Aar38817	(Des-Lys1
87	116	83.5	36	2	AAR37793	Aar37793	(Des-Lys1
88	116	83.5	36	2	AAY22450	Aay22450	Des-Lys1,
89	116	83.5	36	2	AAY22442	Aay22442	Des-Lys1,
90	116	83.5	36	2	AAY22441	Aay22441	Des-Lys1,
91	116	83.5	36	2	AAW90143	Aaw90143	Human am
92	116	83.5	36	2	AAW90145	Aaw90145	Human am
93	116	83.5	36	2	AAW90155	Aaw90155	Human am
94	116	83.5	36	3	AAW18581	Aab18581	Amino aci
95	116	83.5	36	3	AAW18580	Aab18580	Amino aci
96	116	83.5	36	3	AAW18590	Aab18590	Amino aci
97	116	83.5	36	5	ABW05494	Abb05494	Human am

PT adipose tissue deficiency etc.
 XX Disclosure; Page 16; 19pp; English.
 CC Treatment of a patient with anorexia or related condition comprises
 CC admin. of amylin or an analogue in an amt. sufficient to increase the
 CC amylin level in the plasma of the patient. The pref. amylin analogues are
 CC given in AAR29197-222. Treating a patient deficient in adipose tissue
 CC comprises admin. of amylin or an analogue and/or insulin in an amt. and
 CC ratio sufficient to increase adipose tissue. Typical dosage units contain
 CC 0.1-10 mg of amylin analogue and 0.1-1 mg of insulin. (Updated on 25-MAR-
 CC 2003 to correct PN field.)
 XX Sequence 36 AA;
 SQ Query Match 84.9%; Score 118; DB 2; Length 36;
 Best Local Similarity 68.6%; Pred. No. 3.6e-14;
 Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
 QY 3 NTATCATQRLXNFLXXXNXXGXPXLPXTXVGSNTY 37
 DB 2 NTATCATQRLANFLVRSSNNFGPILPSTNVGSNTY 36
 RESULT 3
 AAR38811
 ID AAR38811 standard; peptide; 36 AA.
 AC AAR38811;
 XX 25-MAR-2003 (revised)
 DT 07-SEP-1993 (first entry)
 XX (Des-Lys1), Leu23, Pro25, Val26, Pro28 human amylin analogue.
 XX Hypoglycaemia; insulin; pancreatic amyloid; diabetes mellitus; glucagon;
 KW hyperglycaemic agent.
 OS Homo sapiens.
 FH Key Location/Qualifiers
 FT Disulfide-bond 1..6
 FT Misc-difference 22 /note= "Leu replaces wild-type Phe"
 FT Misc-difference 24 /note= "Pro replaces wild-type Ala"
 FT Misc-difference 25 /note= "Val replaces wild-type Ile"
 FT Misc-difference 27 /note= "Pro replaces wild-type Ser"
 FT Modified-site 36 /note= "amidated"
 XX WO9310146-A1.
 XX 27-MAY-1993.
 XX 19-NOV-1992; 92WO-US009842.
 XX 19-NOV-1991; 91US-00794266.
 XX (AMYL-) AMYLIN PHARM INC.
 XX Gaeta LSL, Jones H, Albrecht E;
 XX WPI; 1993-182488/22.
 XX New amylin agonist peptide(s) - used for treatment and prevention of
 XX hypoglycaemia and diabetes mellitus.
 XX Example 20; Fig 3 and Page 29; 43pp; English.
 XX This peptide is an example of amylin agonists of the invention which can

CC be used as hyperglycaemics. The peptide is an analogue of human amylin
 CC which mimics the effects of the wild-type hormone. Preferred peptides are
 CC used in admixture with insulin for the treatment of diabetes mellitus or
 CC with glucagon for the treatment of hypoglycaemic conditions. See AAR37779
 CC -R37795 and AAR38809-R38826. (Updated on 25-MAR-2003 to correct PN
 CC field.)
 XX Sequence 36 AA;
 SQ Query Match 84.9%; Score 118; DB 2; Length 36;
 Best Local Similarity 68.6%; Pred. No. 3.6e-14;
 Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
 QY 3 NTATCATQRLXNFLXXXNXXGXPXLPXTXVGSNTY 37
 DB 2 NTATCATQRLANFLVRSSNNFGPILPSTNVGSNTY 36
 RESULT 4
 AAR37789
 ID AAR37789 standard; peptide; 36 AA.
 AC AAR37789;
 XX 25-MAR-2003 (revised)
 DT 07-SEP-1993 (first entry)
 XX (Des-Lys1), Arg18, Pro25, Pro28 human amylin analogue.
 XX Hypoglycaemia; insulin; pancreatic amyloid; diabetes mellitus; glucagon;
 KW hyperglycaemic agent.
 OS Homo sapiens.
 FH Key Location/Qualifiers
 FT Disulfide-bond 1..6
 FT Misc-difference 17 /note= "Arg replaces wild-type His"
 FT Misc-difference 24 /note= "Pro replaces wild-type Ala"
 FT Misc-difference 27 /note= "Pro replaces wild-type Ser"
 FT Modified-site 36 /note= "amidated"
 XX WO9310146-A1.
 XX 27-MAY-1993.
 XX 19-NOV-1992; 92WO-US009842.
 XX 19-NOV-1991; 91US-00794266.
 XX (AMYL-) AMYLIN PHARM INC.
 XX Gaeta LSL, Jones H, Albrecht E;
 XX WPI; 1993-182488/22.
 XX New amylin agonist peptide(s) - used for treatment and prevention of
 XX hypoglycaemia and diabetes mellitus.
 XX Claim 46; Fig 1 and Page 21; 43pp; English.
 XX This peptide is an example of amylin agonists of the invention which can
 XX be used as hyperglycaemics. The peptide is an analogue of human amylin
 XX which mimics the effects of the wild-type hormone. Preferred peptides are
 XX used in admixture with insulin for the treatment of diabetes mellitus or
 XX with glucagon for the treatment of hypoglycaemic conditions. See AAR37779
 XX -R37795 and AAR38809-R38826. (Updated on 25-MAR-2003 to correct PN
 XX field.)
 XX Sequence 36 AA;

Query Match 84.9%; Score 118; DB 2; Length 36;
Best Local Similarity 68.6%; Pred. No. 3.6e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 3 NTATXATQRLXNFXLXXXXXNGPXLPTXVGSNTY 37
|||||
Db 2 NTATCATORLANFLVRSSNNFGPILPSTNVGSNTY 36

RESULT 5

AAR37787
ID AAR37787 standard; peptide; 36 AA.
XX AAR37787;
AC
XX
DT 25-MAR-2003 (revised)
DT 07-SEP-1993 (first entry)
XX
DE (des-Lys1), Pro25, Pro28-human amylin analogue.
XX
XX Hypoglycaemia; insulin; pancreatic amyloid; diabetes mellitus; glucagon;
KW hypoglycaemic agent.
XX Homo sapiens.
OS
XX

Key Location/Qualifiers
FH Disulfide-bond 1. .6
FT Misc-difference 24
FT /note= "Pro replaces wild-type Ala"
FT Misc-difference 27
FT /note= "Pro replaces wild-type Ser"
FT Modified-site 36
FT /note= "amidated"

PN WO9310146-A1.
XX
XX
PD 27-MAY-1993.
XX

XX 19-NOV-1992; 92WO-US009842.
XX

XX 19-NOV-1991; 91US-00794266.
XX

XX (AMYL-) AMYLIN PHARM INC.
XX

XX Gaeta LSL, Jones H, Albrecht E;
XX

XX WPI; 1993-182488/22.
XX

XX New amylin agonist peptide(s) - used for treatment and prevention of
FT hypoglycaemia and diabetes mellitus.
XX

XX Example 9; Fig 1 and Page 20; 43pp; English.
XX

XX This peptide is an example of amylin agonists of the invention which can
CC be used as hyperglycaemics. The peptide is an analogue of human amylin
CC which mimics the effects of the wild-type hormone. Preferred peptides are
CC used in admixture with insulin for the treatment of diabetes mellitus or
CC with glucagon for the treatment of hypoglycaemic conditions. See AAR37779
CC -R37795 and AAR38809-R38826. (Updated on 25-MAR-2003 to correct PN
CC field.)
XX

XX Sequence 36 AA;

Query Match 84.9%; Score 118; DB 2; Length 36;
Best Local Similarity 68.6%; Pred. No. 3.6e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 3 NTATXATQRLXNFXLXXXXXNGPXLPTXVGSNTY 37
|||||
Db 2 NTATCATORLANFLVHSSNNFGPILPSTNVGSNTY 36

RESULT 6

AAY22438
ID AAY22438 standard; peptide; 36 AA.
XX

AC AAY22438;
XX

XX 28-SEP-1999 (first entry)
DT

XX Des-Lys1, Arg18, Pro25, Pro28 amylin analogue.
DE

XX Amylin agonist; human; insulin; diabetes; post-prandial glucose level;
KW therapy; mutein.
XX

OS Homo sapiens.
XX

XX Synthetic.
XX

XX Key Location/Qualifiers
FH Disulfide-bond 1. .6
FT Misc-difference 17
FT /label= H18R
FT Misc-difference 24
FT /label= A25P
FT Misc-difference 27
FT /label= S28P

XX WO9934822-A1.
PN

XX 15-JUL-1999.
PD

XX 09-JAN-1998; 98WO-US000288.
PF

XX 09-JAN-1998; 98WO-US000288.
PR

XX (AMYL-) AMYLIN PHARM INC.
XX

XX L'italian J, Musunuri S, Ruby C;
XX

XX WPI; 1999-458254/38.
XX

XX Stabilized liquid formulation for treatment of insulin-dependent diabetes
PT mellitus.
XX
XX Disclosure; Page; 71pp; English.
XX
XX This sequence represents a human amylin analogue, that acts as a amylin
CC agonist. The invention relates to a liquid pharmaceutical formulation
CC (A), that contains (wt./vol.): 0.01-0.5% amylin agonist (I); 1-10%
CC carbohydrate or polyol (II); and 0.02-0.5% acetate, phosphate, citrate or
CC glutamate buffer (III); and has pH 3-6. (A) are used, in conjunction with
CC insulin, for treatment of diabetes, specifically to reduce post-prandial
CC increases in glucose levels of the blood. In these formulations, (I) is
CC stabilised, especially against deamidation and peptide bond hydrolysis
CC for up to 4 years at 5 degrees C and 30 days at 30 degrees C, without
CC addition of a separate stabiliser. They also retain short-term (up to 24
CC hr) stability when combined with insulin, allowing both agents to be
CC administered together, reducing the number of injections required. Note:
CC This sequence was created by the indexer from information given in the
CC specification
XX

XX Sequence 36 AA;

Query Match 84.9%; Score 118; DB 2; Length 36;
Best Local Similarity 68.6%; Pred. No. 3.6e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 3 NTATXATQRLXNFXLXXXXXNGPXLPTXVGSNTY 37
|||||
Db 2 NTATCATORLANFLVRSSNNFGPILPSTNVGSNTY 36

RESULT 7

AAY22444
ID AAY22444 standard; peptide; 36 AA.

XX AAY22444;
 AC 28-SEP-1999 (first entry)
 XX Des-Lys1, Leu23, Pro25, Val26, Pro28 amylin analogue.
 DT Amylin agonist; human; insulin; diabetes; post-prandial glucose level;
 DE therapy; mutein.
 XX Homo sapiens.
 KW Synthetic.
 XX Key Location/Qualifiers
 FH Disulfide-bond 1..6
 FT Misc-difference 22 /label= F23L
 FT Misc-difference 24 /label= A25P
 FT Misc-difference 25 /label= I26V
 FT Misc-difference 27 /label= S28P
 FT WO9934822-A1.
 PN 15-JUL-1999.
 XX 09-JAN-1998; 98WO-US000288.
 XX 09-JAN-1998; 98WO-US000288.
 XX (AMYL-) AMYLIN PHARM INC.
 XX L'italian J, Musunuri S, Ruby C;
 DR WPI; 1999-458254/38.
 XX Stabilized liquid formulation for treatment of insulin-dependent diabetes mellitus.
 XX Disclosure; Page; 71pp; English.
 XX This sequence represents a human amylin analogue, that acts as a amylin agonist. The invention relates to a liquid pharmaceutical formulation (A), that contains (wt./vol.): 0.01-0.5% amylin agonist (I); 1-10% carbohydrate or polyol (II); and 0.02-0.5% acetate, phosphate, citrate or glutamate buffer (III); and has pH 3-6. (A) are used, in conjunction with insulin, for treatment of diabetes, specifically to reduce post-prandial increases in glucose levels of the blood. In these formulations, (I) is stabilised, especially against deamidation and peptide bond hydrolysis for up to 4 years at 5 degrees C and 30 days at 30 degrees C, without addition of a separate stabiliser. They also retain short-term (up to 24 hr) stability when combined with insulin, allowing both agents to be administered together, reducing the number of injections required. Note: This sequence was created by the indexer from information given in the specification
 XX Sequence 36 AA;
 SQ
 Query Match 84.9%; Score 118; DB 2; Length 36;
 Best Local Similarity 68.6%; Pred. No. 3.6e-14;
 Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
 QY 3 NTATXATQRLXNFXLXXXXXXNGPXLPTXVGSNTY 37
 |||||
 DB 2 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 36
 |||||
 RESULT 8
 AAW90149
 ID AAW90149 standard; peptide; 36 AA.
 XX

AC AAW90149;
 XX 15-MAR-1999 (first entry)
 DT Human amylin agonist peptide des-1-Lys23-Leu25-Pro26-Val28-Pro-amylin.
 DE Amylin; human; agonist; gastritis; gastric ulceration; treatment;
 KW non-steroidal anti-inflammatory agent; NSAID; intravenous; subcutaneous;
 KW pain; fever; inflammation; arthritis; hypercoagulation.
 XX Homo sapiens.
 OS Synthetic.
 XX Key Location/Qualifiers
 FH Disulfide-bond 1..6
 FT WO9850059-A1.
 PN 12-NOV-1998.
 PD 06-MAY-1998; 98WO-US009089.
 XX 06-MAY-1997; 97US-00851965.
 XX (AMYL-) AMYLIN PHARM INC.
 XX Young A, Gedulin B, Beynon GW;
 DR WPI; 1999-059652/05.
 XX Method for treating or preventing gastritis - comprises administering
 FT amylin or amylin agonist, except calcitonin.
 XX Claim 6; Page 42; 48pp; English.
 XX This invention relates to a method for treating or preventing gastritis or gastric ulceration which comprises administering amylin or an amylin agonist. Amylin administration is not carried out intra-cerebroventricularly. The specification describes a method for treating or preventing a condition for which a non-steroidal anti-inflammatory agent (NSAID) is indicated, comprising administering amylin or amylin agonist, which is not calcitonin, together with NSAID and also a composition comprising an amylin or an amylin agonist or their salts, except calcitonin and a NSAID in a carrier. The amylin composition is used to treat humans by administering it subcutaneously, intravenously or by nasal, oral, pulmonary, transdermal and buccal routes. The method is also used to treat pain, fever, inflammation, arthritis, hypercoagulation and other condition where an NSAID would be indicated. The present sequence is an example of an agonist used in the method
 XX Sequence 36 AA;
 SQ
 Query Match 84.9%; Score 118; DB 2; Length 36;
 Best Local Similarity 68.6%; Pred. No. 3.6e-14;
 Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
 QY 3 NTATXATQRLXNFXLXXXXXXNGPXLPTXVGSNTY 37
 |||||
 DB 2 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 36
 |||||
 RESULT 9
 AAW90141
 ID AAW90141 standard; peptide; 36 AA.
 XX
 AC AAW90141;
 XX 15-MAR-1999 (first entry)
 DT Human amylin agonist peptide des-1-Lys18-Arg25,28-Pro-amylin.
 DE Amylin; human; agonist; gastritis; gastric ulceration; treatment;
 KW non-steroidal anti-inflammatory agent; NSAID; intravenous; subcutaneous;

KW pain; fever; inflammation; arthritis; hypercoagulation.

XX Homo sapiens.

OS Synthetic.

XX Key Location/Qualifiers

FT Disulfide-bond 1..6

XX WO9850059-A1.

XX 12-NOV-1998.

XX 06-MAY-1998; 98WO-US009089.

XX 06-MAY-1997; 97US-00851965.

XX (AMYL-) AMYLIN PHARM INC.

XX Young A, Gedulin B, Beynon GW;

XX WPI; 1999-059652/05.

XX Method for treating or preventing gastritis - comprises administering amylin or amylin agonist, except calcitonin.

XX Claim 6; Page 42; 48pp; English.

XX This invention relates to a method for treating or preventing gastritis or gastric ulceration which comprises administering amylin or an amylin agonist. Amylin administration is not carried out intracerebroventricularly. The specification describes a method for treating or preventing a condition for which a non-steroidal anti-inflammatory agent (NSAID) is indicated, comprising administering amylin or amylin agonist, which is not calcitonin, together with NSAID and also a composition comprising an amylin or an amylin agonist or their salts, except calcitonin and a NSAID in a carrier. The amylin composition is used to treat humans by administering it subcutaneously, intravenously or by nasal, oral, pulmonary, transdermal and buccal routes. The method is also used to treat pain, fever, inflammation, arthritis, hypercoagulation and other condition where an NSAID would be indicated. The present sequence is an example of an agonist used in the method

XX Sequence 36 AA;

Query Match 84.9%; Score 118; DB 2; Length 36;

Best Local Similarity 68.6%; Pred. No. 3.6e-14;

Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 3 NTATXATQRLXNFXLXXXXXXNGPXLPTXVGSNTY 37

Db 2 NTATCATQRLANFLVRSSNNFGPILPSTNVGSNTY 36

RESULT 10

AAB18584

ID AAB18584 standard; peptide; 36 AA.

XX AAB18584;

DT 15-JAN-2001 (first entry)

DE Amino acid sequence of an amylin agonist analogue compound.

XX Amylin agonist; amylin; gastric motility; gastric emptying; postprandial dumping syndrome; postprandial hyperglycemia; gastrintestinal diagnostic procedure; gastrintestinal disorder; spasm; acute diverticulitis; biliary tract disorder; sphincter of oddi disorder.

XX Synthetic.

XX Key

XX Location/Qualifiers

FT Disulfide-bond 1..6

XX Modified-site 36

/note= "amidated residue"

XX US6114304-A.

XX 05-SEP-2000.

XX 07-SEP-1994; 94US-00302069.

XX 07-SEP-1993; 93US-00118381.

XX (AMYL-) AMYLIN PHARM INC.

XX Young AA, Rink TJ, Brown KAK, Kolterman OG;

XX WPI; 2000-601336/57.

XX Treating gastrintestinal disorder e.g. spasm by reducing gastric motility or delaying gastric emptying, postprandial dumping syndrome or postprandial hyperglycemia, by administering amylin or amylin agonist.

XX Disclosure; Col 43-44; 50pp; English.

XX The present sequence represents an amylin agonist analogue compound. Amylin or amylin agonists are administered for reducing gastric motility or delaying gastric emptying, and for treating postprandial dumping syndrome or postprandial hyperglycemia, by inducing amylin activity, in a mammal. The peptides are used to reduce gastric motility or for delaying gastric emptying in a mammal undergoing gastrintestinal diagnostic procedures, such as radiological examination or magnetic resonance imaging. They are also used for reducing gastric motility in a gastrintestinal disorder, especially spasm, which is associated with a disorder of acute diverticulitis or disorders of biliary tract or sphincter of oddi. They are also used to treat postprandial dumping syndrome or postprandial hyperglycemia

XX Sequence 36 AA;

Query Match 84.9%; Score 118; DB 3; Length 36;

Best Local Similarity 68.6%; Pred. No. 3.6e-14;

Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 3 NTATXATQRLXNFXLXXXXXXNGPXLPTXVGSNTY 37

Db 2 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 36

RESULT 11

AAB18577

ID AAB18577 standard; peptide; 36 AA.

XX AAB18577;

XX 15-JAN-2001 (first entry)

XX Amino acid sequence of an amylin agonist analogue compound.

XX Amylin agonist; amylin; gastric motility; gastric emptying; postprandial dumping syndrome; postprandial hyperglycemia; gastrintestinal diagnostic procedure; gastrintestinal disorder; spasm; acute diverticulitis; biliary tract disorder; sphincter of oddi disorder.

XX Synthetic.

XX Key Location/Qualifiers

FT Disulfide-bond 1..6

XX Modified-site 36

XX /note= "amidated residue"

XX US6114304-A.

XX 05-SEP-2000.

XX 07-SEP-1994; 94US-00302069.

XX 07-SEP-1993; 93US-00118381.
XX (AMYL-) AMYLIN PHARM INC.
XX Young AA, Rink TJ, Brown KAK, Kolterman OG;
XX WPI; 2000-601336/57.
XX Treating gastrointestinal disorder e.g. spasm by reducing gastric
XX motility or delaying gastric emptying, postprandial dumping syndrome or
XX postprandial hyperglycemia, by administering amylin or amylin agonist.
XX Disclosure; Col 39-40; 50pp; English.
XX The present sequence represents an amylin agonist analogue compound.
XX Amylin or amylin agonists are administered for reducing gastric motility
XX or delaying gastric emptying, and for treating postprandial dumping
XX syndrome or postprandial hyperglycemia, by inducing amylin activity, in a
XX mammal. The peptides are used to reduce gastric motility or for delaying
XX gastric emptying in a mammal undergoing gastrointestinal diagnostic
XX procedures, such as radiological examination or magnetic resonance
XX imaging. They are also used for reducing gastric motility in
XX gastrointestinal disorder, especially spasm, which is associated with a
XX disorder of acute diverticulitis or disorders of biliary tract or
XX sphincter of oddi. They are also used to treat postprandial dumping
XX syndrome or postprandial hyperglycemia
XX Sequence 36 AA;
Query Match 84.9%; Score 118; DB 3; Length 36;
Best Local Similarity 68.6%; Pred. No. 3.6e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
Qy 3 NTATCATQRLXNLFXXXXXNKGXPLPTXVGSNTY 37
Db 2 NTATCATQRLANFLVRSSNFGPILPSTNVGSNTY 36
RESULT 12
ABB05499
ID ABB05499 standard; peptide; 36 AA.
AC ABB05499;
XX 19-APR-2002 (first entry)
XX Human amylin agonist des-llys23Leu25Pro26Val28Pro-h-amylin.
XX Human; amylin agonist; amylin peptide analogue; acetate; carbohydrate;
XX liquid pharmaceutical formulation; polyhydric alcohol; phosphate;
XX citrate; glutamate; buffer; antidiabetic; type II diabetes.
XX Homo sapiens.
XX Synthetic.
XX US2001043934-A1.
XX 22-NOV-2001.
XX 09-JAN-1998; 98US-00005262.
XX 08-JAN-1997; 97US-0035140P.
XX (LITA/) L'ITALIEN J.
XX (MUSU/) MUSUNURI S.
XX (RUBY/) RUBY K.
XX L'italien J, Musunuri S, Ruby K;
XX WPI; 2002-163554/21.
XX New pharmaceutical formulation useful for treating patients with type II

PT diabetes comprises amylin agonist, carbohydrate or polyhydric alcohol and
PT a buffer.
XX Disclosure; Page: 19pp; English.
XX The present invention describes a liquid pharmaceutical formulation (A)
XX comprising (wt/vol%) an amylin agonist (0.01 - 0.5), a carbohydrate or a
XX polyhydric alcohol (1 - 10) and an acetate, phosphate, citrate or a
XX glutamate buffer (0.02 - 0.5) having a pH of 3 - 6. Also described is a
XX commercial package containing the liquid pharmaceutical formulation (A).
XX The package comprises a borosilicate glass vial having an open end, a
XX stopper for multise compatible with the amylin and/or amylin agonist,
XX fixed in the open end of the vial and an aluminum band to retain the
XX stopper in the far end of the vial. The package also comprises a
XX cartridge for use in a pen injector. (A) has antidiabetic activity and
XX can be used in the treatment of patients with type II diabetes. The
XX formulation comprises amylin agonist which is biologically active, has a
XX reduced tendency to form aggregates in water or at a pressure of greater
XX than 2 psi and has a reduced tendency to precipitate in the presence of
XX NaCl compared to human amylin. The formulation maintains stability upon
XX storage under refrigerated or room-temperature conditions. The
XX formulation retains short-term mixing compatibility with insulin and
XX results in improved stability of the hormone and the patients no longer
XX need to refrigerate the vial of insulin in use. The present sequence
XX represents a human amylin peptide analogue, which can be used as an
XX amylin agonist in the present invention. N.B. The present sequence is not
XX given in the present specification but is derived from the 37 amino acid
XX human amylin as stated in the invention
XX Sequence 36 AA;
Query Match 84.9%; Score 118; DB 5; Length 36;
Best Local Similarity 68.6%; Pred. No. 3.6e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
Qy 3 NTATCATQRLXNLFXXXXXNKGXPLPTXVGSNTY 37
Db 2 NTATCATQRLANFLVHSSNGLPVLPTNVGSNTY 36
RESULT 13
ABB05491
ID ABB05491 standard; peptide; 36 AA.
XX ABB05491;
XX 19-APR-2002 (first entry)
XX Human amylin agonist des-llys18arg25,28Pro-h-amylin.
XX Human; amylin agonist; amylin peptide analogue; acetate; carbohydrate;
XX liquid pharmaceutical formulation; polyhydric alcohol; phosphate;
XX citrate; glutamate; buffer; antidiabetic; type II diabetes.
XX Homo sapiens.
XX Synthetic.
XX US2001043934-A1.
XX 22-NOV-2001.
XX 09-JAN-1998; 98US-00005262.
XX 08-JAN-1997; 97US-0035140P.
XX (LITA/) L'ITALIEN J.
XX (MUSU/) MUSUNURI S.
XX (RUBY/) RUBY K.
XX L'italien J, Musunuri S, Ruby K;
XX WPI; 2002-163554/21.
XX

CC gastric motility and delaying gastric emptying for therapeutic and
CC diagnostic purposes. The invention is also useful for treating conditions
CC associated with elevated, inappropriate or undesired post-prandial blood
CC glucose levels and treating ingestion of a toxin. The present sequence is
CC human amylin agonist analogue.
XX
SQ Sequence 36 AA;

Query Match 84.9%; Score 118; DB 8; Length 36;
Best Local Similarity 68.6%; Pred. No. 3.6e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATYATQRLANFLVXXXXXXXXXXGPKLPXTXVGSNTY 37
|||||
Db 2 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 36

RESULT 16

ADOS1020
ID ADOS1020 standard; peptide; 36 AA.

XX AC

ADOS1020;

DT 18-NOV-2004 (first entry)

XX Human amylin agonist peptide analogue #6.

XX Gastric motility; delay gastric emptying; amylin; agonist;
XX postprandial dumping syndrome; postprandial hyperglycemia;
XX gastrointestinal disorder; spasm; radiological examination;
XX magnetic resonance imaging; diabetes; therapy; human.

XX Homo sapiens.

XX Key Location/Qualifiers

FT Modified-site 36 /note= "C-terminal amide"

XX US2004097415-A1.

XX 20-MAY-2004.

XX 18-AUG-2003; 2003US-00643681.

XX 07-SEP-1993; 93US-00118381.

XX 07-SEP-1994; 94US-00302069.

XX 22-MAY-2000; 2000US-00576062.

XX (KOLT/) KOLTERMAN O G.

XX (YOUN/) YOUNG A A.

XX (RINK/) RINK T J.

XX (BROW/) KEATING BROWN K A.

XX Kolterman OG, Young AA, Rink TJ, Keating Brown KA;

XX WPI; 2004-389180/36.

XX Use of amylin agonist for reducing gastric motility, delaying gastric
XX emptying and for treating postprandial dumping syndrome and postprandial
XX hyperglycemia.

XX Disclosure; SEQ ID NO 6; 35pp; English.

XX The present invention is directed to novel methods for reducing gastric
XX motility and delaying gastric emptying which comprises the administration
XX of an amylin or an amylin agonist. The invention is useful for treating
XX postprandial dumping syndrome, postprandial hyperglycemia and reducing
XX gastric motility associated with gastrointestinal disorders such as spasm
XX or delaying gastric emptying in a mammal undergoing a gastrointestinal
XX diagnostic procedure such as radiological examination and magnetic
XX resonance imaging. The invention is also useful for lowering postprandial
XX blood glucose levels during treatment of diabetes. The present sequence
XX is human amylin agonist peptide analogue. This sequence is used in the

CC invention.

XX Sequence 36 AA;

Query Match 84.9%; Score 118; DB 8; Length 36;
Best Local Similarity 68.6%; Pred. No. 3.6e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATYATQRLANFLVXXXXXXXXXXGPKLPXTXVGSNTY 37
|||||
Db 2 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 36

RESULT 17

ADOS1027
ID ADOS1027 standard; peptide; 36 AA.

XX AC

ADOS1027;

DT 18-NOV-2004 (first entry)

XX Human amylin agonist peptide analogue #13.

XX Gastric motility; delay gastric emptying; amylin; agonist;
XX postprandial dumping syndrome; postprandial hyperglycemia;
XX gastrointestinal disorder; spasm; radiological examination;
XX magnetic resonance imaging; diabetes; therapy; human.

XX Homo sapiens.

XX Key Location/Qualifiers

FT Modified-site 36 /note= "C-terminal amide"

XX US2004097415-A1.

XX 20-MAY-2004.

XX 18-AUG-2003; 2003US-00643681.

XX 07-SEP-1993; 93US-00118381.

XX 07-SEP-1994; 94US-00302069.

XX 22-MAY-2000; 2000US-00576062.

XX (KOLT/) KOLTERMAN O G.

XX (YOUN/) YOUNG A A.

XX (RINK/) RINK T J.

XX (BROW/) KEATING BROWN K A.

XX Kolterman OG, Young AA, Rink TJ, Keating Brown KA;

XX WPI; 2004-389180/36.

XX Use of amylin agonist for reducing gastric motility, delaying gastric
XX emptying and for treating postprandial dumping syndrome and postprandial
XX hyperglycemia.

XX Disclosure; SEQ ID NO 13; 35pp; English.

XX The present invention is directed to novel methods for reducing gastric
XX motility and delaying gastric emptying which comprises the administration
XX of an amylin or an amylin agonist. The invention is useful for treating
XX postprandial dumping syndrome, postprandial hyperglycemia and reducing
XX gastric motility associated with gastrointestinal disorders such as spasm
XX or delaying gastric emptying in a mammal undergoing a gastrointestinal
XX diagnostic procedure such as radiological examination and magnetic
XX resonance imaging. The invention is also useful for lowering postprandial
XX blood glucose levels during treatment of diabetes. The present sequence
XX is human amylin agonist peptide analogue. This sequence is used in the

XX Sequence 36 AA;

XX delivery mechanism; viral infections; virucide; bacterial infection;
KW antibacterial; amylin.
XX Unidentified.
XX WO2005000222-A2.
XX 06-JAN-2005.
XX 28-MAY-2004; 2004WO-US017456.
XX 30-MAY-2003; 2003US-0474233P.
XX (AMYL-) AMYLIN PHARM INC.
XX Ong JTH, Steteko G, Jennings R;
XX WPI; 2005-075434/08.
XX Pharmaceutical composition for transmucosal administration of a bioactive
PT peptide/protein of interest, e.g. glucagon-like peptide-1, comprises the
PT peptide/protein of interest, a cationic polyamino acid, and a compatible
PT buffer.
XX
XX Disclosure; SEQ ID NO 266; 64pp; English.
XX
XX The invention comprises a pharmaceutical composition for transmucosal
CC administration of a bioactive peptide/protein (e.g. exendin, PYY, GLP-1
CC or amylin peptide/protein) of interest. The composition of the invention
CC is useful for the transmucosal administration of a bioactive peptide or
CC protein and is useful for treating or preventing viral or bacterial
CC diseases in humans. The present amino acid sequence represents an amylin
CC peptide that is used in the exemplification of the invention.
XX
XX Sequence 36 AA;
SQ
Query Match 84.9%; Score 118; DB 9; Length 36;
Best Local Similarity 68.6%; Pred. No. 3.6e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
QY 3 NTATXATQRLXNLFXXXXXNKGPKLPXTXVGSNTY 37
||||| ||||| ||| ||| ||| |||||
DB 2 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 36
RESULT 20
AEB17945
ID AEB17945 standard; peptide; 36 AA.
XX AEB17945;
XX AC AC
XX 08-SEP-2005 (first entry)
XX Homo sapiens.
XX
XX Human amylin agonist, pramlintide peptide SEQ ID NO: 23.
XX
XX Pharmaceutical; weight loss; obesity; anorectic; nutritional disorder;
KW hyperglycemia; antidiabetic; metabolic disorder; antilipemic;
KW diabetes mellitus; metabolic disorder; glucose regulating peptide;
KW amylin agonist; pramlintide.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
FH Disulfide-bond 2..7
FT Modified-site 36
FT /note= "Amidated"
XX
XX US2005143303-A1.
XX
XX 30-JUN-2005.
XX
XX 18-NOV-2004; 2004US-00991597.
XX PF


```

CC 2003 to correct PN field.)
XX
SQ Sequence 37 AA;

Query Match      84.9%; Score 118; DB 2; Length 37;
Best Local Similarity 68.6%; Pred. No. 3.7e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATYATQRLXNFXLXXXXXNGPXLPTXVGSNTY 37
    ||||| ||||| ||||| ||||| ||||| |||||
Db 3 NTATCATQRLANFLVRSSNNLGPVLPSTNVGSNTY 37

RESULT 23
AAR29206
ID AAR29206 standard; protein; 37 AA.
XX
AC AAR29206;
XX
XX 25-MAR-2003 (revised)
DT 20-APR-1993 (first entry)
XX
XX Leu(23)Pro(25)Val(26)Pro(28)-h-amylin for treating anorexia.
XX
XX Anorexia; cachexia; adipose; amylin.
XX
XX Homo sapiens.
XX
XX WO9220367-A1.
XX
XX 26-NOV-1992.
XX
XX 23-MAY-1992; 92WO-US004357.
XX
XX 24-MAY-1991; 91US-00704995.
XX
XX 03-APR-1992; 92US-00862500.
XX
XX (AMYL-) AMYLIN PHARM INC.
XX
XX Rink TJ, Young AA;
XX
XX WPI; 1992-415470/50.
XX
XX Use of amylin and opt. insulin for treating anorexia - increases plasma
XX amylin and/or insulin levels, also for treating cachexia conditions,
XX adipose tissue deficiency etc.
XX
XX Disclosure; Page 16; 19pp; English.
XX
XX Treatment of a patient with anorexia or related condition comprises
XX admin. of amylin or an analogue in an amt. sufficient to increase the
XX amylin level in the plasma of the patient. The pref. amylin analogues are
XX given in AAR29197-222. Treating a patient deficient in adipose tissue
XX comprises admin. of amylin or an analogue and/or insulin in an amt. and
XX ratio sufficient to increase adipose tissue. Typical dosage units contain
XX 0.1-10 mg of amylin analogue and 0.1-1 mg of insulin. (Updated on 25-MAR-
XX 2003 to correct PN field.)
XX
XX Rink TJ, Young AA;
XX
XX WPI; 1992-415470/50.
XX
XX Use of amylin and opt. insulin for treating anorexia - increases plasma
XX amylin and/or insulin levels, also for treating cachexia conditions,
XX adipose tissue deficiency etc.
XX
XX Disclosure; Page 16; 19pp; English.
XX
XX Treatment of a patient with anorexia or related condition comprises
XX admin. of amylin or an analogue in an amt. sufficient to increase the
XX amylin level in the plasma of the patient. The pref. amylin analogues are
XX given in AAR29197-222. Treating a patient deficient in adipose tissue
XX comprises admin. of amylin or an analogue and/or insulin in an amt. and
XX ratio sufficient to increase adipose tissue. Typical dosage units contain
XX 0.1-10 mg of amylin analogue and 0.1-1 mg of insulin. (Updated on 25-MAR-
XX 2003 to correct PN field.)
XX
XX Sequence 37 AA;

Query Match      84.9%; Score 118; DB 2; Length 37;
Best Local Similarity 68.6%; Pred. No. 3.7e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATYATQRLXNFXLXXXXXNGPXLPTXVGSNTY 37
    ||||| ||||| ||||| ||||| ||||| |||||
Db 3 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 37

RESULT 24
AAR29203
ID AAR29203 standard; protein; 37 AA.
XX
XX

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AC AAR29203;
XX
XX 25-MAR-2003 (revised)
DT 20-APR-1993 (first entry)
XX
XX Val(26)Pro(25,28)-h-amylin for treating anorexia.
XX
XX Anorexia; cachexia; adipose; amylin.
XX
XX Homo sapiens.
XX
XX WO9220367-A1.
XX
XX 26-NOV-1992.
XX
XX 23-MAY-1992; 92WO-US004357.
XX
XX 24-MAY-1991; 91US-00704995.
XX
XX 03-APR-1992; 92US-00862500.
XX
XX (AMYL-) AMYLIN PHARM INC.
XX
XX Rink TJ, Young AA;
XX
XX WPI; 1992-415470/50.
XX
XX Use of amylin and opt. insulin for treating anorexia - increases plasma
XX amylin and/or insulin levels, also for treating cachexia conditions,
XX adipose tissue deficiency etc.
XX
XX Disclosure; Page 16; 19pp; English.
XX
XX Treatment of a patient with anorexia or related condition comprises
XX admin. of amylin or an analogue in an amt. sufficient to increase the
XX amylin level in the plasma of the patient. The pref. amylin analogues are
XX given in AAR29197-222. Treating a patient deficient in adipose tissue
XX comprises admin. of amylin or an analogue and/or insulin in an amt. and
XX ratio sufficient to increase adipose tissue. Typical dosage units contain
XX 0.1-10 mg of amylin analogue and 0.1-1 mg of insulin. (Updated on 25-MAR-
XX 2003 to correct PN field.)
XX
XX Sequence 37 AA;

Query Match      84.9%; Score 118; DB 2; Length 37;
Best Local Similarity 68.6%; Pred. No. 3.7e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATYATQRLXNFXLXXXXXNGPXLPTXVGSNTY 37
    ||||| ||||| ||||| ||||| ||||| |||||
Db 3 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 37

RESULT 25
AAR29210
ID AAR29210 standard; protein; 37 AA.
XX
XX AAR29210;
XX
XX 25-MAR-2003 (revised)
DT 20-APR-1993 (first entry)
XX
XX Arg(18)Leu(23)Pro(25,28)-h-amylin for treating anorexia.
XX
XX Anorexia; cachexia; adipose; amylin.
XX
XX Homo sapiens.
XX
XX WO9220367-A1.
XX
XX 26-NOV-1992.
XX
XX 23-MAY-1992; 92WO-US004357.
XX
XX

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FH Key Location/Qualifiers
FT Disulfide-bond 2. .7
FT Misc-difference 18 /label= H18R
FT Misc-difference 23 /label= F23L
FT Misc-difference 25 /label= A25P
FT Misc-difference 26 /label= I26V
FT Misc-difference 28 /label= S28P
FT FT
XX WO9934822-A1.
XX PN
XX 15-JUL-1999.
XX PD
XX 09-JAN-1998; 98WO-US000288.
XX PF
XX 09-JAN-1998; 98WO-US000288.
XX PR
XX (AMYL-) AMYLIN PHARM INC.
XX PA
XX L'italian J, Musunuri S, Ruby C;
XX PI
XX WPI; 1999-458254/38.
XX DR
XX Stabilized liquid formulation for treatment of insulin-dependent diabetes
XX PT mellitus.
XX FT
XX PS Disclosure; Page; 71pp; English.
XX XX
XX This sequence represents a human amylin analogue, that acts as a amylin
XX agonist. The invention relates to a liquid pharmaceutical formulation
XX (A), that contains (wt./vol.): 0.01-0.5% amylin agonist (I); 1-10%
XX carbohydrate or polyol (II); and 0.02-0.5% acetate, phosphate, citrate or
XX glutamate buffer (III); and has pH 3-6. (A) are used, in conjunction with
XX insulin, for treatment of diabetes, specifically to reduce post-prandial
XX increases in glucose levels of the blood. In these formulations, (I) is
XX stabilised, especially against deamidation and peptide bond hydrolysis
XX for up to 4 years at 5 degrees C and 30 days at 30 degrees C, without
XX addition of a separate stabiliser. They also retain short-term (up to 24
XX hr) stability when combined with insulin, allowing both agents to be
XX administered together, reducing the number of injections required. Note:
XX This sequence was created by the indexer from information given in the
XX specification
XX SQ Sequence 37 AA;

Query Match 84.9%; Score 118; DB 2; Length 37;
Best Local Similarity 68.6%; Pred. No. 3.7e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 3 NTATXATQRLXNFLXXXXXNGPXLPTXVGSNTY 37
| | | | | | | | | | | | | | | | | |
Db 3 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 37
| | | | | | | | | | | | | | | | | |

RESULT 33
AAV22445
ID AAV22445 standard; peptide; 37 AA.
XX AC AAV22445;
XX 28-SEP-1999 (first entry)
XX Arg18, Leu23, Pro25, Val26, Pro28 amylin analogue.
XX Amylin agonist; human; insulin; diabetes; post-prandial glucose level;
XX therapy; mutein.
XX Homo sapiens.
XX OS Synthetic.
XX Key Location/Qualifiers

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FT Disulfide-bond 2. .7
FT Misc-difference 18 /label= H18R
FT Misc-difference 23 /label= F23L
FT Misc-difference 25 /label= A25P
FT Misc-difference 26 /label= I26V
FT Misc-difference 28 /label= S28P
FT FT
XX WO9934822-A1.
XX PN
XX 15-JUL-1999.
XX PD
XX 09-JAN-1998; 98WO-US000288.
XX PF
XX 09-JAN-1998; 98WO-US000288.
XX PR
XX (AMYL-) AMYLIN PHARM INC.
XX PA
XX L'italian J, Musunuri S, Ruby C;
XX PI
XX WPI; 1999-458254/38.
XX DR
XX Stabilized liquid formulation for treatment of insulin-dependent diabetes
XX PT mellitus.
XX FT
XX PS Disclosure; Page; 71pp; English.
XX XX
XX This sequence represents a human amylin analogue, that acts as a amylin
XX agonist. The invention relates to a liquid pharmaceutical formulation
XX (A), that contains (wt./vol.): 0.01-0.5% amylin agonist (I); 1-10%
XX carbohydrate or polyol (II); and 0.02-0.5% acetate, phosphate, citrate or
XX glutamate buffer (III); and has pH 3-6. (A) are used, in conjunction with
XX insulin, for treatment of diabetes, specifically to reduce post-prandial
XX increases in glucose levels of the blood. In these formulations, (I) is
XX stabilised, especially against deamidation and peptide bond hydrolysis
XX for up to 4 years at 5 degrees C and 30 days at 30 degrees C, without
XX addition of a separate stabiliser. They also retain short-term (up to 24
XX hr) stability when combined with insulin, allowing both agents to be
XX administered together, reducing the number of injections required. Note:
XX This sequence was created by the indexer from information given in the
XX specification
XX SQ Sequence 37 AA;

Query Match 84.9%; Score 118; DB 2; Length 37;
Best Local Similarity 68.6%; Pred. No. 3.7e-14;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 3 NTATXATQRLXNFLXXXXXNGPXLPTXVGSNTY 37
| | | | | | | | | | | | | | | | | |
Db 3 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 37
| | | | | | | | | | | | | | | | | |

RESULT 34
AAV22435
ID AAV22435 standard; peptide; 37 AA.
XX AC AAV22435;
XX 28-SEP-1999 (first entry)
XX Arg18, Pro25, Pro28 amylin analogue.
XX Amylin agonist; human; insulin; diabetes; post-prandial glucose level;
XX therapy; mutein.
XX Homo sapiens.
XX OS Synthetic.
XX Key

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FH Key Location/Qualifiers
 FT Disulfide-bond 2. .7
 FT Misc-difference 18
 FT /label= H18R
 FT Misc-difference 25
 FT /label= A25P
 FT Misc-difference 28
 FT /label= S28P
 FT
 PN WO9934822-A1.
 XX
 XX 15-JUL-1999.
 XX
 XX 09-JAN-1998; 98WO-US000288.
 XX
 XX 09-JAN-1998; 98WO-US000288.
 XX
 XX (AMYL-) AMYLIN PHARM INC.
 XX
 XX L'italian J, Musunuri S, Ruby C;
 XX
 XX WPI; 1999-458254/38.
 XX
 XX Stabilized liquid formulation for treatment of insulin-dependent diabetes mellitus.
 XX
 XX Disclosure; Page; 71pp; English.
 XX
 XX This sequence represents a human amylin analogue, that acts as a amylin agonist. The invention relates to a liquid pharmaceutical formulation (A), that contains (wt./vol.): 0.01-0.5% amylin agonist (I); 1-10% carbohydrate or polyol (II); and 0.02-0.5% acetate, phosphate, citrate or glutamate buffer (III); and has pH 3-6. (A) are used, in conjunction with insulin, for treatment of diabetes, specifically to reduce post-prandial increases in glucose levels of the blood. In these formulations, (I) is stabilised, especially against deamidation and peptide bond hydrolysis for up to 4 years at 5 degrees C and 30 days at 30 degrees C, without addition of a separate stabiliser. They also retain short-term (up to 24 hr) stability when combined with insulin, allowing both agents to be administered together, reducing the number of injections required. Note: This sequence was created by the indexer from information given in the specification
 XX
 XX Sequence 37 AA;
 SQ
 Query Match 84.9%; Score 118; DB 2; Length 37;
 Best Local Similarity 68.6%; Pred. No. 3.7e-14;
 Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
 Qy 3 NTATCATQRLANFLVRSNNLGPILPSTNVGSNTY 37
 |||||
 Db 3 NTATCATQRLANFLVRSNNLGPILPSTNVGSNTY 37
 |||||
 RESULT 35
 AAY22447
 ID AAY22447 standard; peptide; 37 AA.
 XX
 XX AAY22447;
 AC
 XX 28-SEP-1999 (first entry)
 DT
 XX Arg18, Leu23, Pro25, Pro28 amylin analogue.
 DE
 XX Amylin agonist; human; insulin; diabetes; post-prandial glucose level; therapy; muten.
 KW
 KW Homo sapiens.
 OS
 OS Synthetic.
 XX
 XX Key Location/Qualifiers
 FH Disulfide-bond 2. .7
 FT Misc-difference 18

FT /label= H18R
 FT Misc-difference 23
 FT /label= F23L
 FT Misc-difference 25
 FT /label= A25P
 FT Misc-difference 28
 FT /label= S28P
 FT
 XX WO9934822-A1.
 PN
 XX 15-JUL-1999.
 PD
 XX 09-JAN-1998; 98WO-US000288.
 PF
 XX 09-JAN-1998; 98WO-US000288.
 PR
 XX (AMYL-) AMYLIN PHARM INC.
 XX
 XX L'italian J, Musunuri S, Ruby C;
 PI
 XX WPI; 1999-458254/38.
 DR
 XX Stabilized liquid formulation for treatment of insulin-dependent diabetes mellitus.
 PT
 XX Disclosure; Page; 71pp; English.
 PS
 XX This sequence represents a human amylin analogue, that acts as a amylin agonist. The invention relates to a liquid pharmaceutical formulation (A), that contains (wt./vol.): 0.01-0.5% amylin agonist (I); 1-10% carbohydrate or polyol (II); and 0.02-0.5% acetate, phosphate, citrate or glutamate buffer (III); and has pH 3-6. (A) are used, in conjunction with insulin, for treatment of diabetes, specifically to reduce post-prandial increases in glucose levels of the blood. In these formulations, (I) is stabilised, especially against deamidation and peptide bond hydrolysis for up to 4 years at 5 degrees C and 30 days at 30 degrees C, without addition of a separate stabiliser. They also retain short-term (up to 24 hr) stability when combined with insulin, allowing both agents to be administered together, reducing the number of injections required. Note: This sequence was created by the indexer from information given in the specification
 CC
 CC Sequence 37 AA;
 SQ
 Query Match 84.9%; Score 118; DB 2; Length 37;
 Best Local Similarity 68.6%; Pred. No. 3.7e-14;
 Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
 Qy 3 NTATCATQRLANFLVRSNNLGPILPSTNVGSNTY 37
 |||||
 Db 3 NTATCATQRLANFLVRSNNLGPILPSTNVGSNTY 37
 |||||
 RESULT 36
 AAW90140
 ID AAW90140 standard; peptide; 37 AA.
 XX
 XX AAW90140;
 AC
 XX 15-MAR-1999 (first entry)
 DT
 XX Human amylin agonist peptide 18-Arg25,28-Pro-amylin.
 DE
 XX Amylin; human; agonist; gastritis; gastric ulceration; treatment;
 KW non-steroidal anti-inflammatory agent; NSAID; intravenous; subcutaneous;
 KW pain; fever; inflammation; arthritis; hypercoagulation.
 XX
 XX Homo sapiens.
 OS
 OS Synthetic.
 XX
 XX Key Location/Qualifiers
 FH Disulfide-bond 2. .7
 FT Misc-difference 18

CC sphincter of oddi. They are also used to treat postprandial dumping
 CC syndrome or postprandial hyperglycemia
 XX
 SQ Sequence 37 AA;

Query Match 84.9%; Score 118; DB 3; Length 37;
 Best Local Similarity 68.6%; Pred. No. 3.7e-14;
 Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 3 NTATXQRLKNFLPLXXXXXNGPXLPTXVGSNTY 37
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
 DB 3 NTATQRLANFLVRSSNNLGPILPSTVGSNTY 37
 ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 41
 AAB18585
 ID AAB18585 standard; peptide; 37 AA.
 XX
 AC AAB18585;
 XX
 DT 15-JAN-2001 (first entry)
 XX
 DE Amino acid sequence of an amylin agonist analogue compound.
 XX
 KW Amylin agonist; amylin; gastric motility; gastric emptying;
 KW postprandial dumping syndrome; postprandial hyperglycemia;
 KW gastrointestinal diagnostic procedure; gastrointestinal disorder; spasm;
 KW acute diverticulitis; biliary tract disorder; sphincter of oddi disorder.
 XX
 OS Synthetic.
 XX
 Key Location/Qualifiers
 FH Disulfide-bond 2..7
 FT Modified-site 37
 FT /note= "amidated residue"
 PT
 XX
 XX US6114304-A.
 XX
 XX 05-SEP-2000.
 XX
 XX 07-SEP-1994; 94US-00302069.
 XX
 XX 07-SEP-1993; 93US-00118381.
 XX
 XX (AMYL-) AMYLIN PHARM INC.
 XX
 XX Young AA, Rink TJ, Brown KAK, Kolterman OG;
 XX
 XX WPI; 2000-601336/57.
 XX
 XX Treating gastrointestinal disorder e.g. spasm by reducing gastric
 PT motility or delaying gastric emptying, postprandial dumping syndrome or
 PT postprandial hyperglycemia, by administering amylin or amylin agonist.
 XX
 XX Disclosure; Col 45-46; 50pp; English.
 XX
 XX The present sequence represents an amylin agonist analogue compound.
 CC Amylin or amylin agonists are administered for reducing gastric motility
 CC or delaying gastric emptying, and for treating postprandial dumping
 CC syndrome or postprandial hyperglycemia, by inducing amylin activity, in a
 CC mammal. The peptides are used to reduce gastric motility or for delaying
 CC gastric emptying in a mammal undergoing gastrointestinal diagnostic
 CC procedures, such as radiological examination or magnetic resonance
 CC imaging. They are also used for reducing gastric motility in
 CC gastrointestinal disorder, especially spasm, which is associated with a
 CC disorder of acute diverticulitis or disorders of biliary tract or
 CC sphincter of oddi. They are also used to treat postprandial dumping
 CC syndrome or postprandial hyperglycemia
 XX
 SQ Sequence 37 AA;

Query Match 84.9%; Score 118; DB 3; Length 37;
 Best Local Similarity 68.6%; Pred. No. 3.7e-14;
 Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

RESULT 45
 ABB05496
 ID ABB05496 standard; peptide; 37 AA.
 XX AC ABB05496;
 XX DT 19-APR-2002 (first entry)
 XX DE Human amylin agonist 25Pro26Val28Pro-h-amylin.
 XX KW Human; amylin agonist; amylin peptide analogue; acetate; carbohydrate;
 KW liquid pharmaceutical formulation; polyhydric alcohol; phosphate;
 KW citrate; glutamate; buffer; antidiabetic; type II diabetes.
 XX OS Homo sapiens.
 OS Synthetic.
 XX US2001043934-A1.
 XX PD 22-NOV-2001.
 XX PF 09-JAN-1998; 98US-00005262.
 XX PR 08-JAN-1997; 97US-0035140P.
 XX PA (LITA/) L'ITALIEN J.
 PA (MUSU/) MUSUNURI S.
 PA (RUBY/) RUBY K.
 XX PI L'italien J, Musunuri S, Ruby K;
 XX WPI; 2002-163554/21.
 XX DR
 XX PT New pharmaceutical formulation useful for treating patients with type II
 PT diabetes comprises amylin agonist, carbohydrate or polyhydric alcohol and
 PT a buffer.
 XX PS Disclosure; Page; 19pp; English.
 XX CC The present invention describes a liquid pharmaceutical formulation (A)
 CC comprising (wt/vol%) an amylin agonist (0.01 - 0.5), a carbohydrate or a
 CC polyhydric alcohol (1 - 10) and an acetate, phosphate, citrate or
 CC glutamate buffer (0.02 - 0.5) having a pH of 3 - 6. Also described is a
 CC commercial package containing the liquid pharmaceutical formulation (A).
 CC The package comprises a borosilicate glass vial having an open end, a
 CC stopper for multiuse compatible with the amylin and/or amylin agonist
 CC fixed in the open end of the vial and an aluminium band to retain the
 CC stopper in the far end of the vial. The package also comprises a
 CC cartridge for use in a pen injector. (A) has antidiabetic activity and
 CC can be used in the treatment of patients with type II diabetes. The
 CC formulation comprises amylin agonist which is biologically active, has a
 CC reduced tendency to form aggregates in water or at a pressure of greater
 CC than 2 psi and has a reduced tendency to precipitate in the presence of
 CC NaCl compared to human amylin. The formulation maintains stability upon
 CC storage under refrigerated or room-temperature conditions. The
 CC formulation retains short-term mixing compatibility with insulin and
 CC results in improved stability of the hormone and the patients no longer
 CC need to refrigerate the vial of insulin in use. The present sequence
 CC represents a human amylin peptide analogue, which can be used as an
 CC amylin agonist in the present invention. N.B. The present sequence is not
 CC given in the present specification but is derived from the 37 amino acid
 CC human amylin as stated in the invention
 XX SQ Sequence 37 AA;
 Query Match 84.9%; Score 118; DB 5; Length 37;
 Best Local Similarity 68.6%; Pred. No. 3 7e-14;
 Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
 QY 3 NTATXATQRLXNFXLXXXXXXNGPXLPTXVGSNTY 37
 DB 3 NTATCATQRLANFLVHSSNNFGVLPSTNVGSNTY 37

RESULT 46
 ABB05490
 ID ABB05490 standard; peptide; 37 AA.
 XX AC ABB05490;
 XX DT 19-APR-2002 (first entry)
 XX DE Human amylin agonist 18Arg25,28Pro-h-amylin.
 XX KW Human; amylin agonist; amylin peptide analogue; acetate; carbohydrate;
 KW liquid pharmaceutical formulation; polyhydric alcohol; phosphate;
 KW citrate; glutamate; buffer; antidiabetic; type II diabetes.
 XX OS Homo sapiens.
 OS Synthetic.
 XX US2001043934-A1.
 XX PD 22-NOV-2001.
 XX PF 09-JAN-1998; 98US-00005262.
 XX PR 08-JAN-1997; 97US-0035140P.
 XX PA (LITA/) L'ITALIEN J.
 PA (MUSU/) MUSUNURI S.
 PA (RUBY/) RUBY K.
 XX PI L'italien J, Musunuri S, Ruby K;
 XX WPI; 2002-163554/21.
 XX DR
 XX PT New pharmaceutical formulation useful for treating patients with type II
 PT diabetes comprises amylin agonist, carbohydrate or polyhydric alcohol and
 PT a buffer.
 XX PS Disclosure; Page; 19pp; English.
 XX CC The present invention describes a liquid pharmaceutical formulation (A)
 CC comprising (wt/vol%) an amylin agonist (0.01 - 0.5), a carbohydrate or a
 CC polyhydric alcohol (1 - 10) and an acetate, phosphate, citrate or
 CC glutamate buffer (0.02 - 0.5) having a pH of 3 - 6. Also described is a
 CC commercial package containing the liquid pharmaceutical formulation (A).
 CC The package comprises a borosilicate glass vial having an open end, a
 CC stopper for multiuse compatible with the amylin and/or amylin agonist
 CC fixed in the open end of the vial and an aluminium band to retain the
 CC stopper in the far end of the vial. The package also comprises a
 CC cartridge for use in a pen injector. (A) has antidiabetic activity and
 CC can be used in the treatment of patients with type II diabetes. The
 CC formulation comprises amylin agonist which is biologically active, has a
 CC reduced tendency to form aggregates in water or at a pressure of greater
 CC than 2 psi and has a reduced tendency to precipitate in the presence of
 CC NaCl compared to human amylin. The formulation maintains stability upon
 CC storage under refrigerated or room-temperature conditions. The
 CC formulation retains short-term mixing compatibility with insulin and
 CC results in improved stability of the hormone and the patients no longer
 CC need to refrigerate the vial of insulin in use. The present sequence
 CC represents a human amylin peptide analogue, which can be used as an
 CC amylin agonist in the present invention. N.B. The present sequence is not
 CC given in the present specification but is derived from the 37 amino acid
 CC human amylin as stated in the invention
 XX SQ Sequence 37 AA;
 Query Match 84.9%; Score 118; DB 5; Length 37;
 Best Local Similarity 68.6%; Pred. No. 3 7e-14;
 Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
 QY 3 NTATXATQRLXNFXLXXXXXXNGPXLPTXVGSNTY 37
 DB 3 NTATCATQRLANFLVHSSNNFGVLPSTNVGSNTY 37

Db 3 NTATCATQRLANFLVRSSNFGPILPSTNVGSNTY 37

RESULT 47

ABB05498

ID ABB05498 standard; peptide; 37 AA.

XX AC ABB05498;

XX DT 19-APR-2002 (first entry)

XX DE Human amylin agonist 23Leu25Pro26Val28Pro-h-amylin.

XX KW Human; amylin agonist; amylin peptide analogue; acetate; carbohydrate; liquid pharmaceutical formulation; polyhydric alcohol; phosphate; citrate; glutamate; buffer; antidiabetic; type II diabetes.

XX KW citrate; glutamate; buffer; antidiabetic; type II diabetes.

XX OS Homo sapiens.

OS Synthetic.

XX US2001043934-A1.

XX PN 22-NOV-2001.

XX PD 09-JAN-1998; 98US-00005262.

XX PF 08-JAN-1997; 97US-0035140P.

XX PR (LITA/) L'ITALIEN J.

XX PA (MUSU/) MUSUNURI S.

XX PA (RUBY/) RUBY K.

XX PI L'italien J, Musunuri S, Ruby K;

XX PI WPI; 2002-163554/21.

XX DR New pharmaceutical formulation useful for treating patients with type II diabetes comprises amylin agonist, carbohydrate or polyhydric alcohol and a buffer.

XX PT Disclosure; Page; 19pp; English.

XX PS The present invention describes a liquid pharmaceutical formulation (A) comprising (wt/vol%) an amylin agonist (0.01 - 0.5), a carbohydrate or a polyhydric alcohol (1 - 10) and an acetate, phosphate, citrate or glutamate buffer (0.02 - 0.5) having a pH of 3 - 6. Also described is a commercial package containing the liquid pharmaceutical formulation (A). The package comprises a borosilicate glass vial having an open end, a stopper for multiuse compatible with the amylin and/or amylin agonist fixed in the open end of the vial and an aluminum band to retain the stopper in the far end of the vial. The package also comprises a cartridge for use in a pen injector. (A) has antidiabetic activity and can be used in the treatment of patients with type II diabetes. The formulation comprises amylin agonist which is biologically active, has a reduced tendency to form aggregates in water or at a pressure of greater than 2 psi and has a reduced tendency to precipitate in the presence of NaCl compared to human amylin. The formulation maintains stability upon storage under refrigerated or room-temperature conditions. The formulation retains short-term mixing compatibility with insulin and results in improved stability of the hormone and the patients no longer need to refrigerate the vial of insulin in use. The present sequence represents a human amylin peptide analogue, which can be used as an amylin agonist in the present invention. N.B. The present sequence is not given in the present specification but is derived from the 37 amino acid human amylin as stated in the invention

XX SQ Sequence 37 AA;

Query Match 84.9%; Score 118; DB 5; Length 37;

Best Local Similarity 68.6%; Pred. No. 3.7e-14;

Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATCATQRLANFLXXXXXXNXXGPKLPTXVGSNTY 37

Db 3 NTATCATQRLANFLVHSSNNLGPVLPSTNVGSNTY 37

RESULT 48

ABB05500

ID ABB05500 standard; peptide; 37 AA.

XX AC ABB05500;

XX DT 19-APR-2002 (first entry)

XX DE Human amylin agonist 18Arg23Leu25Pro26Val28Pro-h-amylin.

XX KW Human; amylin agonist; amylin peptide analogue; acetate; carbohydrate; liquid pharmaceutical formulation; polyhydric alcohol; phosphate; citrate; glutamate; buffer; antidiabetic; type II diabetes.

XX KW citrate; glutamate; buffer; antidiabetic; type II diabetes.

XX OS Homo sapiens.

OS Synthetic.

XX US2001043934-A1.

XX PN 22-NOV-2001.

XX PD 09-JAN-1998; 98US-00005262.

XX PF 08-JAN-1997; 97US-0035140P.

XX PR (LITA/) L'ITALIEN J.

XX PA (MUSU/) MUSUNURI S.

XX PA (RUBY/) RUBY K.

XX PI L'italien J, Musunuri S, Ruby K;

XX PI WPI; 2002-163554/21.

XX DR New pharmaceutical formulation useful for treating patients with type II diabetes comprises amylin agonist, carbohydrate or polyhydric alcohol and a buffer.

XX PT Disclosure; Page; 19pp; English.

XX PS The present invention describes a liquid pharmaceutical formulation (A) comprising (wt/vol%) an amylin agonist (0.01 - 0.5), a carbohydrate or a polyhydric alcohol (1 - 10) and an acetate, phosphate, citrate or glutamate buffer (0.02 - 0.5) having a pH of 3 - 6. Also described is a commercial package containing the liquid pharmaceutical formulation (A). The package comprises a borosilicate glass vial having an open end, a stopper for multiuse compatible with the amylin and/or amylin agonist fixed in the open end of the vial and an aluminum band to retain the stopper in the far end of the vial. The package also comprises a cartridge for use in a pen injector. (A) has antidiabetic activity and can be used in the treatment of patients with type II diabetes. The formulation comprises amylin agonist which is biologically active, has a reduced tendency to form aggregates in water or at a pressure of greater than 2 psi and has a reduced tendency to precipitate in the presence of NaCl compared to human amylin. The formulation maintains stability upon storage under refrigerated or room-temperature conditions. The formulation retains short-term mixing compatibility with insulin and results in improved stability of the hormone and the patients no longer need to refrigerate the vial of insulin in use. The present sequence represents a human amylin peptide analogue, which can be used as an amylin agonist in the present invention. N.B. The present sequence is not given in the present specification but is derived from the 37 amino acid human amylin as stated in the invention

XX SQ Sequence 37 AA;

Query Match 84.9%; Score 118; DB 5; Length 37;

Best Local Similarity 68.6%; Pred. No. 3.7e-14;

Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy	3	NTATXATQRLXNFXLXXXXXNKGXPLXPTXVGSNTY	37
Db	3	NTATCAIQRLANFLVRSSNLLGPILPSTNVGSNTY	37
RESULT 49			
ABB05502			
ID	ABB05502	standard; peptide; 37 AA.	
XX			
AC	ABB05502;		
DT	19-APR-2002	(first entry)	
XX			
DE	Human amylin agonist 18Arg23Leu25,28Pro-h-amylin.		
XX			
KW	Human; amylin agonist; amylin peptide analogue; acetate; carbohydrate;		
KW	liquid pharmaceutical formulation; polyhydric alcohol; phosphate;		
KW	citrate; glutamate; buffer; antidiabetic; type II diabetes.		
XX			
OS	Homo sapiens.		
OS	Synthetic.		
XX			
FN	US2001043934-A1.		
XX			
PD	22-NOV-2001.		
XX			
XX	09-JAN-1998;	98US-00005262.	
PF			
XX			
XX	08-JAN-1997;	97US-0035140P.	
XX			
PA	(LITA/) L'ITALIEN J.		
PA	(MUSU/) MUSUNURI S.		
PA	(RUBY/) RUBY K.		
XX			
PI	L'italien J, Musunuri S, Ruby K;		
XX			
DR	WPI; 2002-163554/21.		
XX			
PT	New pharmaceutical formulation useful for treating patients with type II		
PT	diabetes comprises amylin agonist, carbohydrate or polyhydric alcohol and		
PT	a buffer.		
XX			
PS	Disclosure; Page; 19pp; English.		
XX			
CC	The present invention describes a liquid pharmaceutical formulation (A)		
CC	comprising (wt/vol%) an amylin agonist (0.01 - 0.5), a carbohydrate or a		
CC	polyhydric alcohol (1 - 10) and an acetate, phosphate, citrate or		
CC	glutamate buffer (0.02 - 0.5) having a pH of 3 - 6. Also described is a		
CC	commercial package containing the liquid pharmaceutical formulation (A).		
CC	The package comprises a borosilicate glass vial having an open end, a		
CC	stopper for multiuse compatible with the amylin and/or amylin agonist		
CC	fixed in the open end of the vial and an aluminium band to retain the		
CC	stopper in the far end of the vial. The package also comprises a		
CC	cartridge for use in a pen injector. (A) has antidiabetic activity and		
CC	can be used in the treatment of patients with type II diabetes. The		
CC	formulation comprises amylin agonist which is biologically active, has a		
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CC	than 2 psi and has a reduced tendency to precipitate in the presence of		
CC	NaCl compared to human amylin. The formulation maintains stability upon		
CC	storage under refrigerated or room-temperature conditions. The		
CC	formulation retains short-term mixing compatibility with insulin and		
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CC	represents a human amylin peptide analogue, which can be used as an		
CC	amylin agonist in the present invention. N.B. The present sequence is not		
CC	given in the present specification but is derived from the 37 amino acid		
CC	human amylin as stated in the invention		
XX			
SQ	Sequence 37 AA;		
Query Match	84.9%;	Score 118;	DB 5; Length 37;
Best Local Similarity	68.6%;	Pred. No. 3.7e-14;	
Matches	24; Conservative	0; Mismatches	11; Indels 0; Gaps 0;

Qy	3	NTATXATQRLXNFXLXXXXXNKGXPLXPTXVGSNTY	37
Db	3	NTATCAIQRLANFLVRSSNLLGPILPSTNVGSNTY	37
RESULT 50			
ABB05487			
ID	ABB05487	standard; peptide; 37 AA.	
XX			
AC	ABB05487;		
DT	19-APR-2002	(first entry)	
XX			
DE	Human amylin agonist 18Arg25,28Pro-h-amylin.		
XX			
KW	Human; amylin agonist; amylin peptide analogue; acetate; carbohydrate;		
KW	liquid pharmaceutical formulation; polyhydric alcohol; phosphate;		
KW	citrate; glutamate; buffer; antidiabetic; type II diabetes.		
XX			
OS	Homo sapiens.		
OS	Synthetic.		
XX			
FN	US2001043934-A1.		
XX			
PD	22-NOV-2001.		
XX			
XX	09-JAN-1998;	98US-00005262.	
PF			
XX			
XX	08-JAN-1997;	97US-0035140P.	
XX			
PA	(LITA/) L'ITALIEN J.		
PA	(MUSU/) MUSUNURI S.		
PA	(RUBY/) RUBY K.		
XX			
PI	L'italien J, Musunuri S, Ruby K;		
XX			
DR	WPI; 2002-163554/21.		
XX			
PT	New pharmaceutical formulation useful for treating patients with type II		
PT	diabetes comprises amylin agonist, carbohydrate or polyhydric alcohol and		
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CC	NaCl compared to human amylin. The formulation maintains stability upon		
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CC	amylin agonist in the present invention. N.B. The present sequence is not		
CC	given in the present specification but is derived from the 37 amino acid		
CC	human amylin as stated in the invention		
XX			
SQ	Sequence 37 AA;		
Query Match	84.9%;	Score 118;	DB 5; Length 37;
Best Local Similarity	68.6%;	Pred. No. 3.7e-14;	

Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 NTATXATQRLXNFLEXXXXXXNGPXLPTXVGSNTY 37

NTATXATQRLXNFXLXXXXXXGFXLPXTXVGSNTY

Db 3 NTATCATQRLANFLVRSSNFGPILPSTNVGSNTY 37

NTATCATQRLANFLVRSSNFGPILPSTNVGSNTY

Search completed: January 4, 2006, 11:41:37
Job time : 190 secs

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